

# **DIABETES**

## **LITERATURE INDEX**

**NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES**

**U.S. DEPARTMENT OF  
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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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## *Order of Arrangement*

Arrangement of hierarchy  
MEDLARS terms included in hierarchy  
Hierarchical Subject Index  
Keyword Index  
Author Index

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical as-

pects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also-to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

**Hierarchical Subject Index:** This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within

the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

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    - 1.B.4 PANCREAS, PHARMACOLOGY RELATED
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# MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE  
ACIDOSIS  
ACIDOSIS, DIABETIC  
ACROMEGALY  
ADDISON'S DISEASE  
ADRENAL CORTEX HORMONES  
ADRENAL GLAND HYPERFUNCTION  
ADRENAL GLAND HYPOFUNCTION  
ADRENAL GLANDS  
ADRENAL MEDULLA  
ADRENALECTOMY  
ADRENOGENITAL SYNDROME

ALDOSTERONE  
ALLOXAN DIABETES  
BLOOD  
DRUG THERAPY  
ENZYMOLGY  
METABOLISM  
PATHOLOGY  
PHYSIOPATHOLOGY

AMNIOCENTESIS  
ANABOLIC STEROIDS  
ANDROGENS  
ANDROSTERONE

ANTIDIABETICS  
APGAR SCORE  
ARTERIOSCLEROSIS  
BETAMETHASONE  
BIGUANIDES  
BLOOD SUGAR  
ANALYSIS  
BIOSYNTHESIS  
METABOLISM  
PHARMACODYNAMICS

CALCITONIN  
CARBUTAMIDE  
CHLORMADINONE  
CHLOROTRIANSENE  
CHLORPROPAMIDE  
CHOLECYSTOKININ  
CHOLESTEROL, DIETARY  
CHROMAFFIN SYSTEM  
CONTRACEPTIVES, ORAL  
CORONARY DISEASE  
CORPUS LUTEUM  
CORPUS LUTEUM HORMONES  
CORTICOSTERONE  
CORTICOTROPIN  
CORTICOTROPIN RELEASING HORMONE  
CORTISONE  
CRETINISM  
CUSHINGS SYNDROME  
CYCLAMATES  
CYTOCHALASIN B  
CYTOCHALASINS  
DEHYDROEPIANDROSTERONE

DESOXYCORTICOSTERONE  
DEXAMETHASONE  
DIABETES INSIPIDUS  
DIABETES MELLITUS  
BLOOD  
CHEMICALLY INDUCED  
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**[PROCEEDINGS: ULTRASTRUCTURAL CHARACTERISTICS OF THE PANCREATIC ISLAND OF DIABETIC KK MICE]** Watari N *Folia Endocrinol Jpn* 50: 232, 20 Feb 74 (Jpn)

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**[SCANNING ELECTRON MICROSCOPY OF THE ISLETS OF LANGERHANS IN DUCKS AND CHICKENS.** Gomez-Acebo J, Garcia Hermida O *Acta Diabetol Lat* 11: 225-36, May-Jun 74 (Eng)

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#### 1.F.9.8 DIABETES, SURGERY

**STUDIES OF THE RATE OF REGRESSION OF THE GLOMERULAR LESIONS IN DIABETIC RATS TREATED WITH PANCREATIC ISLET TRANSPLANTATION.** Mauer SM, Steffes MW, Sutherland DE, Najarian S, Michael AF, Brown DM *Diabetes* 24: 280-5, Mar 75 (Eng)

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#### 1.F.9.9 DIABETES, MORTALITY

**ON THE CAUSE OF DEATH IN 3,254 DIABETICS IN BERLIN AS SHOWN BY POST MORTEM FINDINGS.** Schliack V, Thoeke H, Zegenhagen R, Anders M *Acta Diabetol Lat* 11: 237-44, May-Jun 74 (Eng)

### 1.F.10 DIABETES, EXPERIMENTAL

#### 1.F.10.1 DIABETES, CHEMICALLY INDUCED

**GROWTH HORMONE (HGH), IRI AND TOTAL IRI RESPONSES TO GLUCOSE LOAD IN SELECTED GROUPS OF MENTAL PATIENTS. II. STUDIES ON THE SO-CALLED CHLOROTHALIDONE-DIABETES IN CHRONIC SCHIZOPHRENICS.** Dobrzanski T, Bizon E *Endokrynol Pol* 25: 455-60, Nov-Dec 74 (Eng)

**[PROCEEDINGS: ETIOLOGY OF DIABETIC ANGIOPATHIES: ACTIVITIES OF SERUM AND TISSUE BETA-N-ACETYLGLUCOSAMINIDASE IN STREPTOZOTOCIN-INDUCED DIABETES IN RATS AND THE EFFECTS OF INSULIN AND GLUCAGON]** Fushimi H, Ichihara K, Saito K, Tarui S *Folia Endocrinol Jpn* 50: 210, 20 Feb 74 (Jpn)

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**[EFFECT OF THE MERITSCHLERI MINERAL WATERS IN EXPERIMENTALLY INDUCED HEPATITIS, DIABETES AND STOMACH ULCER]** Nikiforov N, Cifici S *Folia Med (Plovdiv)* 10: 291-8, 1968 (Ger)

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#### 1.F.10.2.1 ALLOXAN DIABETES, BLOOD

1.F DIABETES

1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

[PROCEEDINGS: THE HYPOGLYCAEMIC ACTION OF ICI 66082 (4-(2-HYDROXY-3-ISOPROPYL-AMINOPROPOXY) PHENYL ACETAMIDE) IN THE RAT. Furman BL, Tayo FM *Br J Pharmacol* 52: 143p, Sep 74 (Eng)]

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[EFFECT OF ALLOXAN DIABETES IN STAPHYLOCOCCAL INFECTION IN MICE] Ivan E, Gabor R, Hernadi F *Zh Mikrobiol Epidemiol Immunobiol* 109-12, Nov 74 (Rus)

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[SOME CHARACTERISTICS OF THE INSULIN

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[PROCEEDINGS: SIGNIFICANCE OF HYPERGLYCEMIA IN RATS WITH ALLOXAN DIABETES] Tani S, Komatsu T *Folia Endocrinol Jpn* 50: 207, 20 Feb 74 (Jpn)

AUTORADIOGRAPHIC STUDY OF DNA SYNTHESIS OF PANCREATIC CELLS OF ALLOXAN DIABETIC RATS. Ayuthya WI *J Med Assoc Thai* 57: 543-9, Nov 74 (Eng)

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1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

[PROCEEDINGS: CHANGES IN THE GLOMERULAR BASAL MEMBRANE IN ALLOXAN DIABETIC IN GENETICALLY PREDISPOSED RATS] Kido S, Mimura G, Jinai T, Sadanaga T, Ono K *Folia Endocrinol Jpn* 50: 209, 20 Feb 74 (Jpn)

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.11 DIABETES, VETERINARY

1.F.12 DIABETES, HISTORY

THE HISTORY OF DIABETES. Coleman V *Nurs Mirror* 140: 70, 3 Apr 75 (Eng)

## Abstract

The purpose of this study was to examine the effects of a 12-week training program on the physical and psychological characteristics of young women. The subjects were 20 young women (mean age 20.5 years) who were divided into two groups: a control group (n=10) and an experimental group (n=10). The experimental group participated in a 12-week training program consisting of three sessions per week, each lasting 45 minutes. The control group did not participate in any training program. The physical characteristics measured were body mass index (BMI), body fat percentage, and heart rate (HR). The psychological characteristics measured were self-esteem, anxiety, and depression. The results showed that the experimental group had significantly higher BMI, body fat percentage, and HR than the control group at the end of the 12-week training program. The experimental group also had significantly higher self-esteem, lower anxiety, and lower depression than the control group at the end of the 12-week training program.

The results of this study suggest that a 12-week training program can have positive effects on the physical and psychological characteristics of young women. The training program can help to increase BMI, body fat percentage, and HR, and it can also help to increase self-esteem, decrease anxiety, and decrease depression. These findings are important because they show that a 12-week training program can have a positive impact on the physical and psychological health of young women. This information can be used to develop interventions that can help to improve the physical and psychological health of young women.

The study was conducted in a laboratory setting. The subjects were recruited from a local university. The control group was assigned to a control condition, and the experimental group was assigned to a training condition. The training program consisted of three sessions per week, each lasting 45 minutes. The training program included cardiovascular exercise, strength training, and flexibility exercises. The control group did not participate in any training program. The physical characteristics were measured at the beginning and end of the 12-week training program. The psychological characteristics were measured at the beginning and end of the 12-week training program. The results were analyzed using a t-test.

The study was limited by the small sample size and the lack of a control group. The results may not be generalizable to other populations. The study was also limited by the lack of a long-term follow-up. The results may not be maintained over time.

## SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

### 2.A ENDOCRINE PANCREAS

#### 2.A.1 ISLETS (SEE SEC. 1.A)

#### 2.A.2 INSULIN (SEE SEC. 1.C)

#### 2.A.3 GLUCAGON (SEE SEC. 1.D)

### 2.B ADRENAL GLANDS

**DISEASES OF THE HYPOTHALAMUS AND PITUITARY GLAND.** Edwards CR, Besser GM *Clin Endocrinol Metab* 3: 475-505, Nov 74 (Eng) [77]

**[ROLE OF GAMMA-AMINOBUTYRIC ACID IN METABOLIC PROCESSES IN THE BRAIN AND PERIPHERAL ORGANS]** Kazarian BA *Vopr Biokhim Mozga* 7: 203-20, 1972 (Rus) [155]

#### 2.B.1 ADRENAL CORTEX

#### 2.B.2 ADRENAL CORTEX HORMONES

**[IMPORTANCE OF ANAMNESIS IN ORAL SURGERY FOR DIABETES, PREGNANCY, MENSTRUATION, CORTICOSTEROIDS, ALLERGY]** Waldhart E *Osterr Z Stomatol* 71: 54-8, Feb 74 (Ger)

##### 2.B.2.1 GLUCOCORTICOIDS

**HORMONAL REGULATION OF HEPATIC P-ENOLPYRUVATE CARBOXYKINASE (GTP) DURING DEVELOPMENT.** Hanson RW, Ballard J *Fed Proc* 34: 166-71, Feb 75 (Eng)

**[PROCEEDINGS: STIMULATORY ACTION OF GLUCOCORTICOIDS ON INSULIN SECRETION]** Kawai A, Kuzuya N *Folia Endocrinol Jpn* 50: 226, 20 Feb 74 (Jpn)

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**HYPEROSMOLAR NONKETOTIC SYNDROME AND STEROID DIABETES. OCCURRENCE AFTER RENAL TRANSPLANTATION.** Woods JE, Zincke H, Palumbo PJ, Johnson WJ, Anderson CF, Frohner PP, Service FJ *JAMA* 231: 1261-3, 24 Mar 75 (Eng)

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**ADENYLATE CYCLASE ACTIVITY IN RAT ADIPOCYTE PLASMA MEMBRANES AFTER**

**ADRENALECTOMY AND ADMINISTRATION OF CORTISONE ACETATE. EFFECTS OF CALCIUM IONS AND HORMONAL STIMULATIONS.** Werner S, Low H *Horm Metab Res* 6: 365-70, Sep 74 (Eng)

##### 2.B.2.1.2 HYDROCORTISONE

**THE ADRENAL CORTEX (EXCLUDING ALDOSTERONISM).** Steinbeck AW, Theile HM *Clin Endocrinol Metab* 3: 557-91, Nov 74 (Eng)

**SOME CLINICAL OBSERVATIONS ON THE DIURNAL RHYTHM OF PLASMA CORTISOL (11-OHCS) IN PATIENTS WITH RHEUMATOID ARTHRITIS TREATED WITH ORAL CORTICOSTEROID DRUGS.** Jasani MK, Diver MJ, Bell AM, Dalakos TG, Buchanan WW *Curr Med Res Opin* 2: 373-86, 1974 (Eng)

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**EFFECT OF CORTISOL ON INSULIN SENSITIVITY OF THE MARSHUPAL BRUSH-TAILED OPOSSUM, TRICHOSURUS VULPECULA (KERR).** Than KA, McDonald IR *J Endocrinol* 63: 473-81, Dec 74 (Eng)

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##### 2.F.3.3.1 CORPUS LUTEUM HORMONES

##### 2.F.3.3.2 PROGESTATIONAL HORMONES

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**[FREQUENCY, SEVERITY AND FORMS OF MANIFESTATION OF DIABETIC RETINOPATHY IN RELATION TO THE STATUS OF COMPENSATION FOR DISORDERED METABOLISM IN DIABETES MEL-**

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**ANIMAL EXPERIMENTS; ANIMAL NUTRITION; BABOONS (metabolism); DRUG COMBINATIONS; ETHYNOLOL DIACETATE (pharmacodynamics); FEMALE; FOLIC ACID (blood); GLUCOSE TOLERANCE TEST; LEUKOCYTE COUNT; LYMPHOCYTES; MESTRANOL (pharmacodynamics); NEUTROPHILS (cytology); PYRIDOXINE (therapeutic use); TIME FACTORS; TRYPTOPHAN (metabolism, diagnostic use); VITAMIN B12 (blood); XANTHURENATES (urine).**

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# Bostrom B

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**[INFLUENCING OF BLOOD SUGAR, SERUM INSULIN LEVEL AND NONESTERIFIED FATTY ACIDS DURING CONTINUOUS FEEDING FOLLOWING ORALLY ADMINISTERED SULFONYLUREA COMPOUNDS ARDF 26 AND GLIBENCLAMIDE] Zilker T, Walddhaler A, Luders T, Ermler R, Bottermann P *Verh Dtsch Ges Inn Med* 80: 1299-302, 1974 (Ger)**

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**ABNORMALITIES, MULTIPLE (pathology); ADRENAL CORTEX DISEASES (etiology, pathology); ADRENAL CORTEX (pathology); ADRENAL GLAND DISEASES; DIAGNOSIS, DIFFERENTIAL; DIAPHRAGMATIC EVENTRATION (etiology); EAR, EXTERNAL (abnormalities); GIGANTISM (complications); HEART DEFECTS, CONGENITAL (etiology); HEMANGIOMA (complications); HEPATOMEALY (etiology); HUMAN; HYPOGLYCEMIA (etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (complications); KIDNEY MEDULLA (pathology, abnormalities); MACROGLOSSIA (etiology); MENTAL RETARDATION (complications); MICROCEPHALY (complications); PANCREAS (pathology, abnormalities); POLYCYTHEMIA (complications); REVIEW; SYNDROME; TONGUE; UMBILICAL HERNIA (congenital); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H..**

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**GROWTH HORMONE (HGH), IRI AND TOTAL IRI RESPONSES TO GLUCOSE LOAD IN SELECTED GROUPS OF MENTAL PATIENTS. II. STUDIES ON THE SO-CALLED CHLORTHALIDONE-DIABETES IN CHRONIC SCHIZOPHRENICS.** Dobrzanski T, Bizon E. *Endokrynol Pol* 25: 455-60, Nov-Dec 74 (Eng)

ADULT; ANTIGENS; CHLORTHALIDONE (therapeutic use, adverse effects); CHRONIC DISEASE; DIABETES MELLITUS (chemically induced); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (blood); MALE; SCHIZOPHRENIA (blood, drug therapy); SOMATOTROPIN (blood).

**GROWTH HORMONE (HGH), IRI AND TOTAL IRI RESPONSES TO GLUCOSE LOAD IN SELECTED GROUPS ON MENTAL PATIENTS. III. STUDIES IN INSULIN-TREATED DIABETICS UNDER PHENOTHIAZINE-TREATED OR WITH DELIRIUM TREMENS.** Dobrzanski T. *Endokrynol Pol* 25: 461-6, Nov-Dec 74 (Eng)

ADULT; ANTIGENS; DELIRIUM TREMENS (blood); DIABETES MELLITUS (blood, drug therapy); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (therapeutic use, blood); MALE; MENTAL DISORDERS (blood, drug therapy); MIDDLE AGE; PHENOTHIAZINES (therapeutic use); PSYCHOSES, ALCOHOLIC (blood); SOMATOTROPIN (blood).

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**PROCEEDINGS: PF INDUCED CELLS AND OPT INDUCED CELLS IN HUMAN PANCREATIC LANGERHANS ISLANDS** Nagai A, Sekizuka H, Kojima S, Doi K, Kudo G. *Folia Endocrinol Jpn* 50: 234, 20 Feb 74 (Jpn)

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**OPTIC NERVE HYPOPLASIA WITH HYPOPHYSECTOMY. SEPTO-OPTIC DYSPLASIA WITH HYPOPHYSECTOMY.** Patel H, Tze WJ, Crichton JU, McCormick AQ, Robinson GC, Dolman CL. *Am J Dis Child* 129: 175-80, Feb 75 (Eng)

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ADULT; AGE FACTORS; AGED; BLEPHAROPTOSIS (etiology); DIABETES MELLITUS (complications); DIABETIC NEUROPATHIES (complications); DIPLOPIA (etiology); EYE MANIFESTATIONS; FEMALE; HEADACHE (etiology); HUMAN; MALE; MIDDLE AGE; OCULOMOTOR PARALYSIS (etiology); PREDIABETIC STATE (diagnosis); SEX FACTORS.

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**[PSYCHOLOGICAL ASPECTS OF DIABETES AND ITS TREATMENT IN ADOLESCENCE]** Appelboom-Fondu J, Verstraeten F, Dopchie N. *Rev Neuropsychiatr Infant* 22: 725-35, Dec 74 (Fre)

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**[PRIMARY DISTRIBUTION SPACE AND PLASMA HALF-LIFE TIME OF INTRAVENOUSLY ADMINISTERED INSULIN]** Dorfler H, Wolfram G, Zollner N. *Verh Dtsch Ges Inn Med* 80: 1297-9, 1974 (Ger)

ADULT; HALF-LIFE; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood, administration & dosage).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); AMYLASE (secretion); ANIMAL EXPERIMENTS; CALCIUM (metabolism); CARBON RADIOISOTOPES; CATTLE; EXOCYTOSIS; FEMALE; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MALE; MICE; NICKEL (pharmacodynamics); PAROTID GLAND (secretion); PITUITARY GLAND (secretion); POTASSIUM (metabolism); RATS; SECRETORY RATE (drug effects); SOMATOTROPIN (secretion).

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**IN VITRO INCORPORATION OF 1-14C NONANAL-9-OIC ACID INTO PLASMA AND HUMAN RED BLOOD CELLS LIPIDS.** Dousset N, Douste-Blazy L. *Lipids* 9: 512-3, Aug 74 (Eng)

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#### Dreyfus JC

**[LACTIC ACIDOSIS, HYPOGLYCEMIA AND HEPATOMEGALY DUE TO HEREDITARY DEFECT IN HEPATIC FRUCTOSE-1, 6-DIPHOSPHATASE]** Saudubray JM, Dreyfus JC, Cepanec C, Le Loch H, Trung PH, Mozziconacci P. *Arch Fr Pediatr* 30: 609-32, Jun-Jul 73 (Fre)

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AGE FACTORS; AGED; CATARACT (complications); DIABETIC RETINOPATHY (etiology, diagnosis, therapy); FLUORESCENCE ANGIOGRAPHY; FUNDUS OCULI; HUMAN; LASER COAGULATION; OPHTHALMOSCOPY; VISION DISORDERS (etiology).

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**PROLONGED PERFUSION WITH A MEMBRANE OXYGENATOR IN AWAKE PONIES.** Rawlings CA, Bisgard GE, Dufek JH, Buss DD, Will JA, Birnbaum ML, Chopra PS, Kahn DR J. *Thorac Cardiovasc Surg* 69: 539-51, Apr 75 (Eng)

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**[MASS SCREENING FOR DIABETES MELLITUS BY USE OF A RAPID METHOD OF DETERMINATION OF GLYCOSURIA]** Dumitriu I, Sfirleaza V, Ionascu E. *Rev Med Chir Soc Med Nat Iasi* 78: 961-2, Oct-Dec 74 (Rum)

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ANIMAL EXPERIMENTS; BODY WEIGHT; CORTICOSTERONE (blood); ETHERS; HYPOTHALAMUS (physiology); MALE; OBESITY (etiology); RADIOIMMUNOASSAY; RATS; SOMATOTROPIN (blood, secretion); STRESS (chemically induced, blood); TIME FACTORS.

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**EFFECT OF GLUCAGON AND RADIOCALCIUM EXCRETION BY THE COLON IN RATS AFTER INTRACARDIAL ADMINISTRATION OF 45CA.** Bogdal J, Jedrychowski A, Tarnawski A, Dura K, Marszałek Z. *Can J Physiol Pharmacol* 52: 1230-2, Dec 74 (Eng)

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**[EXPERIENCE WITH USING IMURAN IN THE OVERALL THERAPY OF DIABETES MELLITUS]** Shurygin Dia, Dygin VP, Sidorov KA, Viazitskii PO, Sergeev AI. *Probl Endokrinol (Mosk)* 20: 12-5, May-Jun 74 (Rus)

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DISEASES OF THE HYPOTHALAMUS AND PITUITARY GLAND. Edwards CR, Besser GM *Clin Endocrinol Metabol* 3: 475-505, Nov 74 (Eng) [77]

ACROMEGALY (metabolism); ADRENAL GLANDS (metabolism); BLOOD SUGAR (metabolism); BRAIN DISEASES (metabolism, radiography); CALCIUM (blood, urine); COMPARATIVE STUDY; DWARFISM (metabolism); GIGANTISM (metabolism); GLUCOSE TOLERANCE TEST; HUMAN; HYPOPITUITARISM (metabolism); HYPOTHALAMO-HYPOPHYSAL SYSTEM (metabolism); HYPOTHALAMUS (metabolism); INSULIN (blood); LYSINE; PHOSPHATES, INORGANIC (blood); PITUITARY DISEASES (metabolism); PNEUMOENCEPHALOGRAPHY; PROLACTIN (blood); RADIOIMMUNOASSAY; REVIEW; SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (blood); THYROTROPIN (blood); VASOPRESSIN (blood, analogs & derivatives); WATER DEPRIVATION.

Edwards IR

PARENTAL NUTRITION. Clark RG, Bleeche SS, Edwards IR *Br J Dermatol* 91: 719-22, Dec 74 (Eng) [33]

Edwards KD

INCREASED INCIDENCE OF CORONARY HEART DISEASE ASSOCIATED WITH COMBINED ELEVATION OF SERUM TRIGLYCERIDE AND CHOLESTEROL CONCENTRATIONS IN THE NEPHROTIC SYNDROME IN MAN. Alexander JH, Schapel GJ, Edwards KD *Med J Aust* 2: 119-22, 27 Jul 74 (Eng)

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STUDIES ON THE INHIBITORY EFFECT OF SOMATOSTATIN ON GLUCOSE INDUCED INSULIN RELEASE IN THE ISOLATED PERFUSED RAT PANCREAS. Efendic S, Luft R *Acta Endocrinol (Kbh)* 78: 510-5, Mar 75 (Eng)

ANIMAL EXPERIMENTS; BINDING; COMPETITIVE; DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); PANCREAS (drug effects, secretion); PEPTIDES (pharmacodynamics); PERFUSION; RATS; SOMATOTROPIN RELEASING HORMONE (antagonists & inhibitors); STIMULATION, CHEMICAL; TIME FACTORS.

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Efimov AS

[STUDY OF INSULIN-I-131 METABOLISM IN SOME ENDOCRINE DISEASES] Slavnov VN, Efimov AS, Epshtein EV *Probl Endokrinol (Mosk)* 20: 30-4, May-Jun 74 (Rus)

[THE ROLE OF ENZYMATIC DISORDERS IN CARBOHYDRATE AND NUCLEOTIDE METABOLISM IN THE PATHOGENESIS OF DIABETES MELLITUS] Efimov AS, Karabum PM *Probl Endokrinol (Mosk)* 20: 7-12, May-Jun 74 (Rus)

ADENOSINE DIPHOSPHATE (blood); ADENOSINE TRIPHOSPHATASE (blood); ADOLESCENCE; ADULT; AGED; CARBOHYDRATES (metabolism); DIABETES MELLITUS (etiology, enzymology); DIABETIC ANGIOPATHIES (enzymology); ENGLISH ABSTRACT; ENZYME TESTS; ERYTHROCYTES (enzymology); FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE (blood); HUMAN; MALE; MIDDLE AGE; NADH, NADPH OXIDOREDUCTASES (blood); NUCLEOTIDASES (blood); NUCLEOTIDES (metabolism); OBESITY IN DIABETES (enzymology); PHOSPHATASES (blood); PURINE NUCLEOTIDES (blood); SPECTROPHOTOMETRY; TRANSKETOLASE (blood).

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AGE FACTORS; BODY WEIGHT; CHOLECYSTITIS (occurrence, blood, etiology); CHOLELITHIASIS (occurrence, blood, etiology); CHOLESTEROL (metabolism, blood); FEMALE; GALLBLADDER DISEASES (occurrence, etiology, blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPERLIPIDEMIA (complications, metabolism, blood); LIPOPROTEINS (blood); MALE; MIDDLE AGE; SEX RATIO; TRIGLYCERIDES (blood).

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ORAL MANAGEMENT OF UNCOMPLICATED MATURITY ONSET DIABETES. Mashaly M, el-Ebrashy N, Higazi AM, Einen MA, Aziz MT *J Egypt Med Assoc* 57: 288-97, 1974 (Eng)

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FEMALE GENITAL COCCIDIOIDOMYCOSIS. Saw EC, Smale LE, Einstein H, Huntington RW Jr *Obstet Gynecol* 45: 199-202, Feb 75 (Eng)

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IS LIPID LOST DURING PREPARATION OF ERYTHROCYTE MEMBRANES Hanahan DJ, Ekholm JE, Luthra MG *Biochim Biophys Acta* 363: 283-6, 6 Sep 74 (Eng)

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LEUCINE TOLERANCE IN PROTEIN-CALORIE MALNUTRITION. Shukry AS, Fayad IM, Abdel Rahman YM, El-Zawahry N, El-Bagouri IM, Nassar S, Ahmed FM *Gaz Egypt Paediatr Assoc* 21: 15-8, Oct 73 (Eng)

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EATING; FOOD HABITS; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN; OBESITY IN DIABETES (metabolism); PERIODICITY.

ORAL MANAGEMENT OF UNCOMPLICATED MATURITY ONSET DIABETES. Mashaly M, el-Ebrashy N, Higazi AM, Einen MA, Aziz MT *J Egypt Med Assoc* 57: 288-97, 1974 (Eng)

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DIABETES MELLITUS (metabolism); FASTING; FEMALE; FRUCTOSE (adverse effects, diagnostic use); GLUCOSE TOLERANCE TEST (adverse effects); HUMAN; INJECTIONS, INTRAVENOUS; KETOSIS, DIABETIC (metabolism); LACTATES (blood); LACTOSE TOLERANCE TEST (adverse effects); MALE; UREMIA (chemically induced).

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SUPRARENAL CORTICAL RESERVE CAPACITY IN JUVENILE DIABETES. Abdel-Salam E, Abdel-Aziz T, Hafiez AA, el-Sharkawy S, Boutros NZ *Gaz Egypt Paediatr Assoc* 22: 43-51, Jan 74 (Eng)

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ANIMAL EXPERIMENTS; ARTERIES (pathology); DIABETES MELLITUS (surgery); DOGS; ENGLISH ABSTRACT; FEMALE; GRAFT REJECTION (pathology); ISLANDS OF LANGERHANS (pathology); MALE; PANCREAS (transplantation, blood supply); TIME FACTORS; TRANSPLANTATION, HOMOLOGOUS (methods).

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[OBSTETRIC AND INTERNAL PROBLEMS OF PREGNANCY IN MANIFEST DIABETES MELLITUS] Engelhardt W, Mehnert H *Med Klin* 69: 1961-70, 29 Nov 74 (Ger)

ABNORMALITIES; ABORTION; CARBOHYDRATES (metabolism); FEMALE; FETAL DEATH; GESTATIONAL AGE; HUMAN; HYDRAMNIOS; HYPERGLYCEMIA (complications); HYPOGLYCEMIA (complications); LABOR COMPLICATIONS (prevention & control); LABOR, INDUCED; LABOR, PREMATURE; MATERNAL



MORTALITY; PREGNANCY IN DIABETES (complications); PREGNANCY COMPLICATIONS, INFECTIOUS (complications); PREGNANCY TOXEMIAS (complications); PREGNANCY; PRENATAL CARE; VOMITING (complications).

**Engler M**

PROMOTER-LIKE MUTATION AFFECTING HPR AND ENZYME I OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *SALMONELLA TYPHIMURIUM*. Cordaro JC, Anderson RP, Grogan EW Jr, Wenzel DJ, Engler M, Roseman S *J Bacteriol* 120: 245-52, Oct 74 (Eng)

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AN EVALUATION OF SECONDARY FAILURE TO TOLBUTAMIDE THERAPY. Jerums G, Ennis GC, Miller M *Aust NZ J Med* 4: 467-74, Oct 74 (Eng)

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**Ensink JW**

STIMULATION OF GLUCAGON SECRETION BY ETHANOL-INDUCED HYPOGLYCEMIA IN MAN. Palmer JP, Ensink JW *Diabetes* 24: 295-300, Mar 75 (Eng)

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FAST AND SIMPLE IDENTIFICATION OF ADIPOSE TISSUES IN SITU WITH DITHIZON. Epple A, Marques M, Miller SB *Anat Rec* 180: 341-50, Oct 74 (Eng)

ADIPOSE TISSUE; ANIMAL EXPERIMENTS; BROWN FAT; COLOR; DITHIZONE; HUMAN; INDICATORS AND REAGENTS; SOLUBILITY; STAINS AND STAINING.

**Epshtein EV**

[STUDY OF INSULIN-I-131 METABOLISM IN SOME ENDOCRINE DISEASES] Slavnov VN, Efimov AS, Epshtein EV *Probl Endokrinol (Mosk)* 20: 30-4, May-Jun 74 (Rus)

**Ermier R**

[INFLUENCING OF BLOOD SUGAR, SERUM INSULIN LEVEL AND NONESTERIFIED FATTY ACIDS DURING CONTINUOUS FEEDING FOLLOWING ORALLY ADMINISTERED SULFONYLUREA COMPOUNDS ARDF 26 AND GLIBENCLAMIDE] Zilker T, Waldthaler A, Luters T, Ermier R, Bottermann P *Verh Dtsch Ges Inn Med* 80: 1299-302, 1974 (Ger)

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BIOCHEMICAL MONITORING OF THE SURGICAL PATIENT. Schurer W, Erve PR, Miller B *Surg Clin North Am* 55: 11-20, Feb 75 (Eng)

**Esterly JA**

GLOMERULAR LESIONS OF DIABETES MELLITUS IN MYSTROMYS ALBICAUDATUS. Riley T, Stuhlman RA, Van Peenen HJ, Esterly JA, Townsend JF *Arch Pathol* 99: 167-9, Mar 75 (Eng)

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MODEL TRANSLOCATORS FOR DIVALENT AND MONOVALENT ION TRANSPORT IN PHOSPHOLIPID MEMBRANES. II. THE EFFECTS OF ION TRANSLATOR X-537A ON THE ENERGY-CONSERVING PROPERTIES OF MITOCHONDRIAL MEMBRANES. Estrada S, Celis H, Calderon E, Gallo G, Montal M *J Membr Biol* 18: 201-18, 1974 (Eng)

ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ANTIBIOTICS (pharmacodynamics); BIOLOGICAL TRANSPORT; CALCIUM (metabolism); CARBOXYLIC ACIDS (pharmacodynamics); CATIONS, DIVALENT; CESIUM (metabolism); COMPARATIVE STUDY; DIFFUSION; ENERGY TRANSFER; GLUTAMATES (metabolism); HYDROGEN-ION CONCENTRATION; HYDROXYBUTYRATES (metabolism); KINETICS; LITHIUM (metabolism); MAGNESIUM (metabolism); MALATES (metabolism); MALE; MITOCHONDRIA, LIVER (metabolism, drug effects); OSMOLAR CONCENTRATION; OXYGEN CONSUMPTION (drug effects); POTASSIUM CHLORIDE (pharmacodynamics); POTASSIUM (metabolism); RATS; RUBIDIUM (metabolism); SODIUM (metabolism); SONICATION; SUCCINATES (metabolism); VALINOMYCIN (pharmacodynamics).

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[EDEMA OF THE BRAIN AS A COMPLICATION OF DIABETIC KETO-ACIDOSIS] Friberg S, Falhof L *Ugeskr Laeger* 137: 77-82, 6 Jan 75 (Dan)

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HYDROXYAPATITE; KINETICS; MAGNESIUM (pharmacodynamics); MATHEMATICS; OSMOLAR CONCENTRATION; PROTEIN BINDING; SPECTROPHOTOMETRY, ULTRAVIOLET.

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ANIMAL EXPERIMENTS; ANIMALS, NEWBORN; CELLS, CULTURED; CHICKENS;

ENZYME INDUCTION; FATTY ACIDS (biosynthesis); FATTY ACIDS, NONESTERIFIED (pharmacodynamics); GLUCAGON (pharmacodynamics); IMMUNE SERUMS (pharmacodynamics); INSULIN (pharmacodynamics); ISOCITRATE DEHYDROGENASE (metabolism); LIVER (metabolism, enzymology, drug effects); MALATE DEHYDROGENASE (metabolism); MODELS, BIOLOGICAL; RATS; REVIEW; SERUM ALBUMIN (pharmacodynamics); THYROXINE (immunology, pharmacodynamics); THYROXINE-BINDING PROTEIN (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics).

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**Hoder A**

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### Hoffken B

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MITOCHONDRIA, LIVER (metabolism, drug effects); OLIGOMYCIN (pharmacodynamics); OXALOACETATES (metabolism); PALMITIC ACID (metabolism); PYRUVATES (metabolism); RATS; TIME FACTORS.

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ADENOSINE MONOPHOSPHATE (antagonists & inhibitors); ADMINISTRATION, ORAL; ANIMAL EXPERIMENTS; ANTIDIABETICS (pharmacodynamics); BIGUANIDES (pharmacodynamics); BLOOD SUGAR (metabolism); CARBUTAMIDE (pharmacodynamics); COMPARATIVE STUDY; DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLIBENCLAMIDE (pharmacodynamics); INJECTIONS, INTRAVENOUS; PLATELET ADHESIVENESS (drug effects); PLATELET AGGREGATION (drug effects); PYRIMIDINES (pharmacodynamics); RATS; SEMICARBAZIDES (pharmacodynamics); SULFONYLUREA COMPOUNDS (pharmacodynamics); TOLAZAMIDE (pharmacodynamics); TOLBUTAMIDE (pharmacodynamics).

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#### Lovinger R

INHIBITION BY SOMATOSTATIN OF GLUCAGON AND INSULIN RELEASE FROM THE PERFUSED RAT PANCREAS IN RESPONSE TO ARGININE, ISOPROTERENOL AND THEOPHYLLINE: EVIDENCE FOR A PREFERENTIAL EFFECT ON GLUCAGON SECRETION. Gerich JE, Lovinger R, Grodsky GM *Endocrinology* 96: 749-54, Mar 75 (Eng)

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[INFLUENCING OF BLOOD SUGAR, SERUM INSULIN LEVEL AND NONESTERIFIED



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[PROCEEDINGS: C-PEPTIDE METABOLISM IN MAN AND RATS] Munemura M, Kaneko T, Oka H, Yamashita K, Suzuki A *Folia Endocrinol Jpn* 50: 240, 20 Feb 74 (Jpn) ANIMAL EXPERIMENTS; HUMAN; INSULIN ANTIBODIES; MALE; PEPTIDES (immunology, blood); RATS.

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[PROCEEDINGS: DYNAMICS OF GROWTH HORMONE IN THE BLOOD IN DIABETIC PATIENTS, WITH SPECIAL REFERENCE TO ITS RELATIONSHIP TO MICROANGIOPATHY] Yoshida K, Hayakawa H, Takasakura E, Kawai K, Muramoto S *Folia Endocrinol Jpn* 50: 208, 20 Feb 74 (Jpn)

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[COURSE OF IMMUNOREACTIVE INSULIN, GLYCEMIA AND FATTY ACID LEVELS AFTER STIMULATION WITH GLUCOSE AND AMINOPHYLLINE] Bartos V, Malakova B, Spevakova A, Visek V, Krombholzova L, Musil J, Kimlova I, Prokopec J *Vnitř Lek* 21: 261-8, Mar 75 (Cze)

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[EFFECT OF THE DESTRUCTION AND STIMULATION OF THE VENTROMEDIAL AND ARCULATE NUCLEI OF THE HYPOTHALAMUS ON THE HISTOPHYSIOLOGY OF THE PANCREATIC ISLET APPARATUS] Sanduliak LI, Myslitskii VF *Arkhy Anat Gistol Embriol* 67: 76-8, Sep 74 (Rus)

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ALDEHYDES (diagnostic use); FORMALDEHYDE (diagnostic use); HISTOLOGICAL TECHNIQS; HUMAN; ISLANDS OF LANGERHANS (cytology); PHTHALIC ACIDS (analogs & derivatives, diagnostic use).

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STUDIES OF THE RATE OF REGRESSION OF THE GLOMERULAR LESIONS IN DIABETIC RATS TREATED WITH PANCREATIC ISLET TRANSPLANTATION. Mauer SM, Steffes MW, Sutherland DE, Najarian S, Michael AF, Brown DM *Diabetes* 24: 280-5, Mar 75 (Eng)

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[THE CHALLENGE OF COMPLETE ASSISTANCE IN NURSING. CASE REPORT] Nakame DD *Rev Esc Enferm USP* 8: 38-44, Mar 74 (Spa)

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etiology); MIDDLE AGE; NURSING CARE;  
SPECIAL LIST NURSING.

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[SELF-CARE PRACTICED BY PATIENTS WITH  
CHRONIC DISEASES: SELF-CARE BY  
DIABETIC OUTPATIENTS] Morita C, Okazaki  
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PHOSPHATE DEHYDROGENASE ACTIVITY  
IN THE SUBMANDIBULAR GLAND OF MICE.  
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AGING; CASTRATION; COMPARATIVE  
STUDY; ESTRADIOL (pharmacodynamics);  
FEMALE; GLUCOSEPHOSPHATE  
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GLAND (enzymology, growth & development,  
drug effects); PHOSPHOFRUCTOKINASE  
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(pharmacodynamics); PYRUVATE KINASE  
(metabolism); RATS, INBRED STRAINS; SEX  
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[PROCEEDINGS: LH-RH TEST IN DIABETES. 2]  
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M *Folia Endocrinol Jpn* 50: 376, 20 Feb 74 (Jpn)

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REGITINE-GTT IN PHEOCHROMO-  
CYTOMA] Nakano H, Shinbo S *Folia Endocrinol*  
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ADRENAL GLAND NEOPLASMS (diagnosis);  
GLUCOSE TOLERANCE TEST; HUMAN;  
PHENTOLAMINE (diagnostic use);  
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[PROCEEDINGS: CHANGES IN GLUCOSE,  
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Nakao K, Takao T, Nonaka K, Manabe T, Uozu-  
mi T *Folia Endocrinol Jpn* 50: 211, 20 Feb 74  
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BLOOD SUGAR (analysis); FATTY ACIDS,  
NONESTERIFIED (blood);  
GASTROINTESTINAL SYSTEM (surgery);  
HUMAN; INSULIN (blood).

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REVERSIBLE CHANGES IN THE STABILITY  
OF PHOSPHOFRUCTOKINASE IN RAT  
DIAPHRAGMS. Nakatsu K, Mansour TE  
*Biochem Biophys Res Commun* 60: 1331-7, 23  
Oct 74 (Eng)

ANIMAL EXPERIMENTS; COMPARATIVE  
STUDY; DIAPHRAGM (enzymology, physiology,  
drug effects); DRUG STABILITY; ELECTRIC  
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PHOSPHOFRUCTOKINASE (metabolism);  
RATS; SPECTROPHOTOMETRY,  
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[PROCEEDINGS: PLASMA RENIN ACTIVITY  
IN DIABETES INSIPIDUS: WITH SPECIAL  
REFERENCE TO THE EFFECT OF CHLOR-  
PROPAMIDE TREATMENT] Hama H, Nara Y,  
Kamoi H, Matsuoka M *Folia Endocrinol Jpn* 50:  
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LEUCINE TOLERANCE IN PROTEIN-CALORIE  
MALNUTRITION. Shukry AS, Fayad IM, Abdel  
Rahman YM, El-Zawahry N, El-Bagouri IM,  
Nassar S, Ahmed FM *Gaz Egypt Paediatr Assoc*  
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GHOSTS BY FERRITIN LABELLED INSULIN  
ANTIBODIES. Siess EA, Nestorescu ML, Wie-  
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DIABETES MELLITUS] Niepel G, Hajzok O,  
Bachledova E *Fysiatr Reumatol Vestn* 52: 14-8,  
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AGED; DIABETES MELLITUS (complications);  
ENGLISH ABSTRACT; EXOSTOSES (etiology);  
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INSULIN SECRETION AND BIOSYNTHESIS  
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[PRINCIPAL CHANGES IN THE METABOLISM  
OF THE NEWBORN] Nigro N *Minerva Pediatr*  
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CARBOHYDRATES (metabolism);  
GLYCOGENOSIS; HUMAN; INFANT,  
NEWBORN; INFANT, NEWBORN, DISEASES  
(metabolism, diagnosis); LIPIDS (metabolism);  
METABOLISM, INBORN ERRORS (diagnosis);  
PROTEINS (metabolism).

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WATERS IN EXPERIMENTALLY INDUCED  
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ULCER] Nikiforov N, Cificjski S *Folia Med*  
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ALLOXAN DIABETES (therapy); ANIMAL  
EXPERIMENTS; BULGARIA; FEMALE;  
HEPATITIS (therapy); MALE; MINERAL  
WATERS; RATS; STOMACH ULCER (therapy).

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POSITIONAL SPECIFICITY OF ADIPOSE TIS-  
SUE LIPOPROTEIN LIPASE. Nilsson-Ehle P,  
Garfinkel AS, Schotz MC *Lipids* 9: 548-53, Aug  
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ADIPOSE TISSUE (enzymology); ANIMAL  
EXPERIMENTS; CARBON RADIOISOTOPES;  
CHROMATOGRAPHY, THIN LAYER;  
COMPARATIVE STUDY; EGG YOLK;  
EPIDIDYMI; GEL FILTRATION;  
GLYCERIDES; ISOTOPE LABELING;  
KINETICS; LECITHINS; LIPOPROTEIN LIPASE  
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OLEIC ACID; RATS; STRUCTURE-ACTIVITY  
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# Nishi N

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LIN AND BLOOD SUGAR REGULATION IN  
ANENCEPHALIC INFANTS WITH AGENESIS  
OF THE DIENCEPHALON] Kato H, Kumasaka  
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HYPERLIPIDEMIA AND THE LONG TERM  
DIETARY CONTROL OF THE HYPER-  
LIPIDEMIA. Nishimoto S *Jpn Circ J* 39: 345-9,  
Mar 75 (Eng)

ADULT; AGED; BODY WEIGHT;  
CARDIOVASCULAR DISEASES (diet therapy,  
complications); CHOLESTEROL (blood);  
DIABETES MELLITUS (diet therapy,  
complications); DIET, REDUCING; FATTY  
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HYPERLIPIDEMIA (diet therapy, complications);  
MALE; MIDDLE AGE; OBESITY (diet therapy,  
complications); PHOSPHOLIPIDS (blood);  
TRIGLYCERIDES (blood).

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ON INTESTINAL GLUCOSE ABSORPTION IN  
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[REGULATION OF DIABETES MELLITUS]  
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DIABETES MELLITUS (therapy); DIABETIC  
DIET; HUMAN; INSULIN (therapeutic use);  
SPECIAL LIST NURSING.

# Noma K

[EVALUATION OF THE BATCH OF BOVINE  
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Hara H, Kawate R *Clin Endocrinol (Tokyo)* 22:  
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CATTLE: INSULIN (blood); IODINE ISOTOPES, DIAGNOSTIC; RADIOIMMUNOASSAY; SERUM ALBUMIN, BOVINE (standards).

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AUSTRALIA ANTIGEN (isolation & purification); DIABETES MELLITUS (immunology); DISPOSABLE EQUIPMENT; EGYPT; GEL DIFFUSION TESTS; HEPATITIS, INFECTIOUS (occurrence, microbiology, prevention & control); HUMAN; RURAL POPULATION; SYRINGES; URBAN POPULATION.

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[EFFECT OF SUCCESSIVE COOLING AND IMMOBILIZATION ON CATECHOLAMINE METABOLISM IN RAT TISSUES] Matlina ESh, Vaisman SM, Zaidner IG, Kogan BM, Nozdracheva LV *Fiziol Zh SSSR* 60: 540-7, Apr 74 (Rus)

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ADULT; BLOOD SUGAR (analysis); DIABETES MELLITUS (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MALE; SLEEP; SOMATOTROPIN (blood).

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[PROCEEDINGS: DETERMINATION OF URINARY C-PEPTIDE AND ITS CLINICAL SIGNIFICANCE] Oka H, Kaneko T, Munemura M, Oda T, Yamashita K *Folia Endocrinol Jpn* 50: 241, 20 Feb 74 (Jpn)

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[PROCEEDINGS: EFFECTS OF ENDOGENOUS INSULIN AND AMINOPHYLLINE ON GASTRIN SECRETION] Ishida T, Goto A, Kasai K, Ofuji S *Folia Endocrinol Jpn* 50: 253, 20 Feb 74 (Jpn)

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SUPPRESSION OF PANCREATIC GLUCAGON SECRETION BY TOLBUTAMIDE IN DOGS. Ohneda A, Sato M, Matsuda K, Itabashi H, Horigome K, Chiba M, Yamagata S *Horm Metab Res* 6: 478-83, Nov 74 (Eng)

ANIMAL EXPERIMENTS; ARGININE (pharmacodynamics); BLOOD SUGAR (metabolism); DOGS; GLUCAGON (secretion, blood); INSULIN (blood); PANCREAS (secretion, drug effects); TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

### Oka H

[PROCEEDINGS: GLUCOSE STIMULATION OF INSULIN SECRETION AND RESULTANT CHANGES OF CYCLIC AMP VOLUMES IN

THE LANGERHANS ISLANDS] Suzuki A, Oka H, Yasuda H, Kaneko T, Yamashita K *Folia Endocrinol Jpn* 50: 236, 20 Feb 74 (Jpn)

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HUMAN; INSULIN (urine); PEPTIDES (urine).

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[PROCEEDINGS: SERUM DOPAMINE BETA HYDROXYLASE ACTIVITIES IN THE INSULIN TEST] Okada F, Yamashita I, Suwa N, Kunita H, Hata S *Folia Endocrinol Jpn* 50: 643, 20 Feb 74 (Jpn)

ANOREXIA NERVOSA (enzymology); DOPAMINE BETA HYDROXYLASE (blood); HUMAN; INSULIN (diagnostic use); MALE; SCHIZOPHRENIA (enzymology).

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ACETYLCHOLINE (pharmacodynamics); ACUTE DISEASE; ADULT; AUTONOMIC NERVOUS SYSTEM; BLOOD PRESSURE (drug effects); COCAINE (pharmacodynamics); DOPAMINE BETA HYDROXYLASE (blood); EPINEPHRINE (pharmacodynamics); EPINEPHRINE (pharmacodynamics); HEAT; HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN; MALE; METHACHOLINE COMPOUNDS (diagnostic use, pharmacodynamics); MIDDLE AGE; NERVOUS SYSTEM DISEASES (enzymology, physiopathology); PILOCARPINE (pharmacodynamics); PILORECTION (drug effects); PULSE (drug effects); PUPIL (drug effects); SWEATING (drug effects); SYMPATHOMIMETICS (pharmacodynamics).

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HUMAN; INSULIN (secretion); ISLANDS OF LANGERHANS (pathology); ISLET CELL TUMOR (physiopathology, pathology); PANCREATIC NEOPLASMS (physiopathology, pathology).

**Ono J**

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**Paul M**

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MAGNESIUM (metabolism); MEMBRANES (metabolism); MODELS, BIOLOGICAL; MODELS, CHEMICAL; MULTENZYMATIC COMPLEXES (metabolism); OSMOSIS; PHOSPHATES (metabolism); POTASSIUM (metabolism); PROTONS (metabolism); SODIUM (metabolism); THERMODYNAMICS.

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**LEVELS OF GLUCOSE IN BLOOD AND INSULIN IN PLASMA AND GLUCAGON RESPONSE TO ARGININE INFUSION IN LOW BIRTH WEIGHT INFANTS.** Falorni A, Massi-Benedetti F, Gallo S, Romizi S *Pediatr Res* 9: 55-60, Jan 75 (Eng)

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**INVESTIGATIONS ON THE ANTILIPOLYTIC ACTIVITY OF SULFONYLUREAS IN MAN WITH INDICATIONS ON LIMIT DOSAGES CONCERNING THEIR INSULIN-SECRETING PROPERTIES.** Rosak C, Haupt E, Beyer J, Schoffing K *Horm Metab Res* 6: 464-70, Nov 74 (Eng)

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**PROCEEDINGS: GLUCOSE TOLERANCE AND INSULIN SECRETION AFTER SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY.** Bittner R, Beger HG, Kraas E, Roscher R *Br J Surg* 62: 153, Feb 75 (Eng)

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## Rosselin G

**UNTRACTABLE HYPOGLYCEMIA IN AN INFANT: STUDIES ON PANCREAS INSULIN AND GLUCAGON.** Rancon F, Laburthe M, Rosselin G, Freychet P *Horm Metab Res* 6: 443-7, Nov 74 (Eng)

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(urine); AUTOANALYSIS; CLINICAL RESEARCH; CREATININE (urine, blood); GLOMERULAR FILTRATION RATE; GLYCOSURIA (diagnosis); HUMAN; INJECTIONS, INTRAVENOUS; KIDNEY CONCENTRATING ABILITY; KIDNEY FUNCTION TESTS; KIDNEY TUBULES, DISTAL (drug effects); KIDNEY TUBULES, PROXIMAL (drug effects); KIDNEY (drug effects); MALE; PROTEINURIA; URIC ACID (metabolism).

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[PROCEEDINGS: ETIOLOGY OF DIABETIC ANGIOPATHIES: ACTIVITIES OF SERUM AND TISSUE BETA-N-ACETYLGLUCOSAMINIDASE IN STREPTOZOTOCIN-INDUCED DIABETES IN RATS AND THE EFFECTS OF INSULIN AND GLUCAGON] Fushimi H, Ichihara K, Saito K, Tarui S *Folia Endocrinol Jpn* 50: 210, 20 Feb 74 (Jpn)

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**BIOLOGICAL TRANSPORT, ACTIVE; CARBON RADIOISOTOPES; CELL FRACTIONATION** (methods); **CELL WALL** (analysis); **CENTRIFUGATION, DENSITY GRADIENT; CHITIN** (analysis); **COMPARATIVE STUDY; EVALUATION STUDIES; GLUCOSE** (metabolism); **GLUCURONIDASE; METHODS; NEUROSPORA CRASSA** (cytology, metabolism, analysis); **NEUROSPORA** (ultrastructure, cytology); **SODIUM DODECYL SULFATE; SORBOSE** (metabolism); **SPHEROPLASTS** (metabolism, ultrastructure); **TIME FACTORS.**

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**ALKALINE PHOSPHATASE (blood); BILIRUBIN (blood); BIOTRANSFORMATION; BLOOD CHEMICAL ANALYSIS (methods); COMPLEMENT; DIAGNOSIS, DIFFERENTIAL; FECES (analysis); GLUCONEOGENESIS; HUMAN; HYPOGLYCEMIA (metabolism); ISOENZYMES; JAUNDICE (diagnosis); LACTATES (metabolism); LIVER FUNCTION TESTS; LIVER (metabolism, enzymology); METABOLISM; POSTOPERATIVE CARE; PROGNOSIS; SERUM ALBUMIN (analysis); SHOCK, HEMORRHAGIC (metabolism); UROBILIN (urine); UROBILINOGEN (urine).**

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**DEVELOPMENT AND VALIDATION OF A RADIOIMMUNOASSAY FOR PEPTIDES RELATED TO BETA-MELANOCYTE-STIMULATING HORMONE IN HUMAN PLASMA: THE LIPOTROPINS.** Gilkes JJ, Bloomfield GA, Scott AP, Lowry PJ, Ratcliffe JG, Landon J, Rees LH *J Clin Endocrinol Metab* 40: 450-7, Mar 75 (Eng)

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**[PROCEEDINGS: PF INDUCED CELLS AND OPT INDUCED CELLS IN HUMAN PANCREATIC LANGERHANS ISLANDS]** Nagai A, Sekizuka H, Kojima S, Doi K, Kudo G *Folia Endocrinol Jpn* 50: 234, 20 Feb 74 (Jpn)

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[MASS SCREENING FOR DIABETES MELLITUS BY USE OF A RAPID METHOD OF DETERMINATION OF GLYCOSURIA] Dumitriu I, Sfirleaza V, Ionescu E *Rev Med Chir Soc Med Nat Iasi* 78: 961-2, Oct-Dec 74 (Rum)

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[PROCEEDINGS: INSULIN BINDING SUBSTANCE IN THE BLOOD IN HYPERTHYROIDISM] Kasai K, Kikuta T, Ieiri S, Shimoda S *Folia Endocrinol Jpn* 50: 417, 20 Feb 74 (Jpn)

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**Shipikina LS**  
[ASSOCIATION OF ADDISON'S DISEASE AND DIABETES MELLITUS] Kolomoiskaia MB, Shipikina LS *Ter Arkh* 46: 118-20, 1974 (Rus)

**Shiraki M**  
[PROCEEDINGS: C 14 ACETAMINIDATION OF INSULIN] Oyama T, Ito H, Shiraki M, Orimo H, Matsuo M *Folia Endocrinol Jpn* 50: 213, 20 Feb 74 (Jpn)

[PROCEEDINGS: EFFECT OF PORCINE CALCITONIN ON INSULIN SECRETION] Shiraki M, Ito H, Tabuchi M, Oyama T, Orimo H *Folia Endocrinol Jpn* 50: 600, 20 Feb 74 (Jpn)

**CALCITONIN** (pharmacodynamics); **HUMAN**; **INSULIN** (secretion); **SWINE**.

**Shizume K**  
[PROCEEDINGS: KETONE BODY METABOLISM IN DIABETES: WITH SPECIAL REFERENCE TO THE EFFECTS OF

**NOREPINEPHRINE AND HYDROCORTISONE INJECTIONS IN CASES WITH GOOD OR FAIR CONTROL OF DIABETES]** Wakatsuki M, Tasaka Y, Saito R, Shizume K *Folia Endocrinol Jpn* 50: 205, 20 Feb 74 (Jpn)

[PROCEEDINGS: PANCREATIC GLUCAGON IN THE BLOOD OF DIABETIC PATIENTS] Tasaka Y, Sekine M, Yokosuka T, Iwatani M, Shizume K *Folia Endocrinol Jpn* 50: 247, 20 Feb 74 (Jpn)

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**ADULT**; **ANIMAL EXPERIMENTS**; **CATTLE**; **CHRONIC DISEASE**; **DIABETES MELLITUS** (drug therapy); **DRUG COMBINATIONS**; **DRUG HYPERSENSITIVITY** (diagnosis); **FEMALE**; **HUMAN**; **INSULIN**, **ISOPHANE** (adverse effects, therapeutic use); **RECURRENCE**; **SUSPENSIONS**; **SWINE**; **URTICARIA** (chemically induced).

**Shropshire RW**  
**THE HIDDEN FACES OF ALCOHOLISM**. Shropshire RW *Geriatrics* 30: 99-102, Mar 75 (Eng)

**ALANINE AMINOTRANSFERASE** (blood); **ALCOHOL**, **ETHYL** (adverse effects); **ALCOHOLISM** (complications, diagnosis, blood, metabolism); **ANEMIA** (etiology); **ASPARTATE AMINOTRANSFERASE** (blood); **BILIRUBIN** (blood); **BLOOD SUGAR** (analysis); **CARBOHYDRATES** (metabolism); **DRUG WITHDRAWAL SYMPTOMS** (diagnosis); **FOLIC ACID** (blood); **GASTRITIS** (etiology); **HUMAN**; **HYPOGLYCEMIA** (etiology); **LUNG DISEASES** (etiology); **MAGNESIUM DEFICIENCY** (etiology); **MAGNESIUM** (blood); **NUTRITION DISORDERS** (etiology); **PANCREATITIS** (etiology); **PERIPHERAL NERVE DISEASES** (etiology); **URIC ACID** (metabolism); **WATER-ELECTROLYTE BALANCE**; **WOUNDS AND INJURIES** (etiology).

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**BLOOD SUGAR** (analysis); **CHILD**, **PRESCHOOL**; **HUMAN**; **INSULIN** (secretion); **KWASHIORKOR** (physiopathology); **LEUCINE** (diagnostic use); **PANCREAS** (physiopathology); **PROTEIN-CALORIE MALNUTRITION** (physiopathology).

**THE GLYCOGENOLYTIC ACTIVITY IN PROTEIN-CALORIE MALNUTRITION**. Shukry AS, Abdel Rahman YM, Fayad IM, el-Bagouri IM, el-Zawahry N, Ahmed FM, Nassar S *Gaz Egypt Paediatr Assoc* 22: 19-25, Jan 74 (Eng)

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**Shultz K**  
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**Shumake LB**  
**POSTOPERATIVE HYPOGLYCEMIA IN CONGENITAL HYPERTROPHIC PYLORIC STENOSIS**. Shumake LB *South Med J* 68: 223-4, Feb 75 (Eng)

**GLUCOSE** (administration & dosage); **HUMAN**; **HYPERTROPHY**; **HYPOGLYCEMIA** (etiology,



## Shurygin Dia

therapy); INFANT; INFUSIONS, PARENTERAL; MALE; POSTOPERATIVE COMPLICATIONS (therapy); PYLORIC STENOSIS (congenital, surgery).

## Shurygin Dia

[EXPERIENCE WITH USING IMURAN IN THE OVERALL THERAPY OF DIABETES MELLITUS] Shurygin Dia, Dygin VP, Sidorov KA, Viazitskii PO, Sergeev AI *Probl Endokrinol (Mosk)* 20: 12-5, May-Jun 74 (Rus)  
ADULT; AZATHIOPRINE (therapeutic use, administration & dosage); BLOOD CELLS (drug effects); CARBOHYDRATES (metabolism); DIABETES MELLITUS (drug therapy, metabolism); ENGLISH ABSTRACT; HUMAN; INSULIN RESISTANCE; MALE; TIME FACTORS.

## Shuster S

HORMONAL REGULATION OF CUTANEOUS LIPOGENESIS: EFFECTS OF HYPOPHYSECTOMY, POSTERIOR-HYPOPHYSECTOMY AND ALPHA-MELANOCYTE-STIMULATING HORMONE TREATMENT. Cooper MF, Thody AJ, Shuster S *Biochim Biophys Acta* 360: 193-204, 22 Aug 74 (Eng)

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ADIPOSE TISSUE (ultrastructure, immunology); ANIMAL EXPERIMENTS; ANTIGEN-ANTIBODY REACTIONS; BINDING SITES, ANTIBODY; CATTLE; CELL MEMBRANE (ultrastructure, immunology); CENTRIFUGATION; CORTICOTROPIN (immunology); FERRITIN (diagnostic use); GAMMA GLOBULINS (immunology); GLUCAGON (immunology); GUINEA PIGS (immunology); HORSES (immunology); INSULIN ANTIBODIES; INSULIN (analysis, immunology); IODINE RADIOISOTOPES; MALE; METHODS; MICROSCOPY, ELECTRON; OXYTOCIN (immunology); PROINSULIN (immunology); RATS; RECEPTORS, HORMONE; TEMPERATURE; TRYPSIN (pharmacodynamics).

## Silverman DE

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AGE FACTORS; DIABETES MELLITUS (complications); FEMALE; HUMAN; MIDDLE AGE; PAROTITIS (etiology).

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HEPATIC ARTERY LIGATION AND POSTOPERATIVE CHEMOTHERAPY FOR HEPATIC METASTASES: CLINICAL AND PATHOPHYSIOLOGICAL RESULTS. Sparks FC, Mosher MB, Hallauer WC, Silverstein MJ, Rangel D, Passaro E Jr, Morton DL *Cancer* 35: 1074-82, Apr 75 (Eng)

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STIMULATION OF THE UPTAKE OF ALPHAMINOISOBUTYRIC ACID IN RAT THYMOCYTES BY L-TRIHODOTHYRONINE: A COMPARISON WITH INSULIN AND DIBUTYRYL CYCLIC AMP. Goldfine ID, Simons CG, Ingbar SH *Endocrinology* 96: 802-5, Mar 75 (Eng)

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## Sizemore GW

STIMULATION TESTS FOR DIAGNOSIS OF MEDULLARY THYROID CARCINOMA. Sizemore GW, Go VL *Mayo Clin Proc* 50: 53-6, Feb 75 (Eng)

ADOLESCENCE; ADULT; CALCITONIN (secretion, immunology); CALCIUM (diagnostic use); CARCINOMA (diagnosis); GLUCAGON (diagnostic use); HUMAN; PENTAGASTRIN (diagnostic use); THYROID NEOPLASMS (diagnosis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H..

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INTESTINAL ABSORPTION IN MYOTONIC DYSTROPHY. Sjaastad O *Acta Neurol Scand* 51: 59-73, Jan 75 (Eng)

ADOLESCENCE; ADULT; BLOOD SUGAR; CHROMIUM ISOTOPES; FATTY ACIDS (analysis); FECES (analysis); FEMALE; FOLLOW-UP STUDIES; GASTROINTESTINAL MOTILITY; GLUCOSE TOLERANCE TEST; HUMAN; INTESTINAL ABSORPTION; LIPIDS (analysis); MALE; MIDDLE AGE; MYOTONIA ATROPHICA (complications, metabolism); NITROGEN (analysis); PORPHOBILINOGEN (urine); SCHILLING TEST; TIME FACTORS; VITAMIN A (diagnostic use); XYLOSE (diagnostic use).

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CYTOSPECTROFLUOROMETRIC CHARACTERIZATION OF OPT-INDUCED FLUORESCENCE IN RAT PINEALOCYTES. Hakanson R, Owman C, Sjölund K *Histochemistry* 42: 323-31, 1974 (Eng)

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[EFFECTS OF DIET ON 24-HOUR POSTPRANDIAL GLYCEMIA AND INSULINEMIA IN PATIENTS FOLLOWING GASTRECTOMY] Skibinski A, Medrzejewski W *Pol Tyg Lek* 30: 367-70, 3 Mar 75 (Pol)

ADULT; AGED; BLOOD SUGAR (analysis); CIRCADIAN RHYTHM; DIET; DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage); DIETARY PROTEINS (administration & dosage); EATING; ENGLISH ABSTRACT; FEMALE; GASTRECTOMY; HUMAN; INSULIN (blood); MALE; MIDDLE AGE.

## Slavov VN

[STUDY OF INSULIN-I-131 METABOLISM IN SOME ENDOCRINE DISEASES] Slavov VN, Efimov AS, Epshtein EV *Probl Endokrinol (Mosk)* 20: 30-4, May-Jun 74 (Rus)  
ADOLESCENCE; ADULT; AGED; CAPILLARY PERMEABILITY (drug effects); CIRCADIAN RHYTHM; DIABETES MELLITUS (metabolism); ENDOCRINE DISEASES (metabolism); ENGLISH ABSTRACT; EXTRACELLULAR SPACE (drug effects); FEMALE; GÖTTER (metabolism); HUMAN; HYPERTHYROIDISM (metabolism); INJECTIONS, INTRAVENOUS; INSULIN (metabolism, diagnostic use); IODINE RADIOISOTOPES (metabolism); IODINE (urine); MALE; MATHEMATICS; MIDDLE AGE; OBESITY IN DIABETES (metabolism); PROTEIN-BOUND IODINE TEST; SCINTILLATION COUNTERS.

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SOME CONSIDERATIONS ON TRANSPORT ACROSS SYNTHETIC AND LIVING MEMBRANES. Botre C, Memoli A, Dorst W, Smelik PG *Farmacol Sci* 29: 665-81, Sep 74 (Eng)

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AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; CARBON RADIOISOTOPES; CASTRATION; CHROMATOGRAPHY, DEAE-CELLULOSE; CHROMATOGRAPHY, ION EXCHANGE; COMPARATIVE STUDY; DRUG STABILITY; ELECTROPHORESIS, POLYACRYLAMIDE GEL; ESTRADIOL (pharmacodynamics); FEMALE; GEL DIFFUSION TESTS; GEL FILTRATION; GLUCOSEPHOSPHATE DEHYDROGENASE (biosynthesis, immunology, isolation & purification); HEAT; HYDROGEN-ION CONCENTRATION; KINETICS; MOLECULAR WEIGHT; NADP (pharmacodynamics); OVARY (physiology); PRECIPITIN TESTS; RABBITS (immunology); RATS; SUBCELLULAR FRACTIONS (enzymology); TIME FACTORS; TRANSLATION, GENETIC (drug effects); ULTRACENTRIFUGATION; UTERUS (enzymology, drug effects, cytology).

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INCORPORATION OF LIPID VESICLES BY MAMMALIAN CELLS PROVIDES A POTENTIAL METHOD FOR MODIFYING CELL BEHAVIOUR. Papahadjopoulos D, Mayhew E, Poste G, Smith S, Vail WJ *Nature* 252: 163-6, 8 Nov 74 (Eng)

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BOVINE SERUM PROLACTIN, GROWTH HORMONE, CORTISOL AND MILK YIELD AFTER

**ERGOCRYPTINE.** Smith VG, Beck TW, Conway EM, Tucker HA *Neuroendocrinology* 15: 172-81, 1974 (Eng)

**ANIMAL EXPERIMENTS; BROMINE** (pharmacodynamics); **CATTLE; CELLS, CULTURED; ERGOT ALKALOIDS** (pharmacodynamics); **FEMALE; HYDROCORTISONE** (blood, secretion); **LACTATION** (drug effects); **METHODS; PITUITARY GLAND** (cytology, drug effects, secretion); **PITUITARY GLAND, ANTERIOR** (cytology); **PROLACTIN** (blood, antagonists & inhibitors, secretion); **SOMATOTROPIN** (blood, secretion); **TIME FACTORS.**

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**AN EFFECT OF GLUCAGON ON 3, 5-CYCLIC AMP PHOSPHODIESTERASE ACTIVITY IN ISOLATED RAT HEPATOCYTES.** Allan EH, Sneyd JG *Biochem Biophys Res Commun* 62: 594-601, 3 Feb 75 (Eng)

**Snopkova J**

**[BIOCHEMICAL CAUSES OF MENTAL RETARDATION IN PHENYLKETONURIA]** Mrskos A, Kaniova V, Podhradská O, Drasilova L, Snopkova J *Cesk Pediatr* 29: 37-9, Jan 74 (Cze)

**Snyder WB**

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**Soberman R**

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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (pharmacodynamics); **ADIPOSE TISSUE** (enzymology, drug effects); **ANIMAL EXPERIMENTS; CAFFEINE** (pharmacodynamics); **ENZYME ACTIVATION** (drug effects); **EPINEPHRINE** (pharmacodynamics); **GEL FILTRATION; INSULIN** (pharmacodynamics); **KINETICS; METHODS; ORGAN SPECIFICITY; PROTEIN KINASE** (metabolism); **PROTEINS** (pharmacodynamics, isolation & purification); **RATS; TIME FACTORS.**

**Sokolov IaA**

**[BLOOD GROWTH HORMONE CONTENT IN OBESE DIABETIC PATIENTS]** Kliachko VR, Fedotov VP, Mikhailova EV, Sokolov IaA, Buialo OS *Probl Endokrinol (Mosk)* 20: 24-7, May-Jun 74 (Rus)

**Sokolov Iu**

**[USE OF MISCLERON ON DIABETES MELLITUS PATIENTS WITH PERIPHERAL CIRCULATORY DISORDERS]** Kakhnovskii IM, Paskalov ES, Grishina IM, Sokolov Iu *Probl Endokrinol (Mosk)* 20: 16-20, May-Jun 74 (Rus)

**Sokolovskii VD**

**[DIAGNOSIS AND TREATMENT OF DIABETES MELLITUS IN ACUTE SURGICAL DISEASES]** Sokolovskii VD *Khirurgii (Mosk)* 113-8, Oct 74 (Rus)

**ACUTE DISEASE; ADULT; AGED; DIABETES MELLITUS** (diagnosis, therapy); **DIABETIC COMA** (therapy); **EMERGENCIES; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN** (diagnostic use); **MIDDLE AGE; POSTOPERATIVE CARE; PREDIABETIC STATE** (diagnosis, therapy); **PREOPERATIVE CARE; SURGERY, OPERATIVE.**

**Solbach HG**

**[THE EFFECT OF SYNTHETIC SOMATOSTATIN IN NORMAL AND ACROMEGALIC MALES]** Wiegelmann W, Solbach HG, Kley HK, Rudorff KH, Herrmann J, Zimmermann H, Kruskemper HL *Dtsch Med Wochenschr* 100: 331-4, 21 Feb 75 (Ger)

**Soliman NA**

**CHARACTERISTIC CELLULAR CHANGES IN EXFOLIATED ORAL EPITHELIAL CELLS IN DIABETES MELLITUS, COOLEYS ANAEMIA, KWASHIORKOR AND RHEUMATIC HEART DISEASE IN CHILDREN.** Waly HG, Aboul Hassan M, el Morsy BA, Soliman NA *Gaz Egypt Paediatr Assoc* 22: 73-9, Jan 74 (Eng)

**Soliman SI**

**LACTOSE ABSORPTION IN PROTEIN-CALORIE MALNUTRITION.** Hanafy MM, Seddik Y, El-Khateeb S, Shaaban NA, Soliman SI *Gaz Egypt Paediatr Assoc* 21: 9-13, Oct 73 (Eng)

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**PANCREATIC ISLET CELL CARCINOMA METASTATIC TO THE EYES.** Solomon SM, Nickel JR *Am J Ophthalmol* 78: 806-10, Nov 74 (Eng)

**AGED; AUTOPSY; CHOROID NEOPLASMS** (pathology); **CILIARY BODY** (pathology); **EYE NEOPLASMS** (pathology); **FEMALE; FLUORESCENCE ANGIOGRAPHY; HUMAN; ISLET CELL TUMOR** (pathology, diagnosis); **NEOPLASM METASTASIS; PANCREATIC NEOPLASMS** (pathology, diagnosis); **PITUITARY NEOPLASMS** (pathology).

**Sova J**

**[INSULIN AND LONG-TERM THERAPEUTIC EXERCISE IN PATIENTS AFTER MYOCARDIAL INFARCTION (AUTHORS TRANSL)]** Karlicek V, Topolcan O, Sova J, Kucera M, Jeschke J, Suchan J *Cas Lek Cesk* 113: 569-70, 3 May 74 (Cze)

**Sparks FC**

**HEPATIC ARTERY LIGATION AND POSTOPERATIVE CHEMOTHERAPY FOR HEPATIC METASTASES: CLINICAL AND PATHOPHYSIOLOGICAL RESULTS.** Sparks FC, Mosher MB, Hallauer WC, Silverstein MJ, Rangel D, Passaro E Jr, Morton DL *Cancer* 35: 1074-82, Apr 75 (Eng)

**ADULT; AGED; ANTINEOPLASTIC AGENTS** (therapeutic use, administration & dosage); **BIOPSY; CARBON DIOXIDE** (blood); **COLONIC NEOPLASMS** (drug therapy); **FEMALE; FLUOROURACIL** (therapeutic use); **GLUCAGON** (therapeutic use); **HEPATIC ARTERY** (surgery); **HUMAN; LIGATION; LIVER NEOPLASMS** (therapy, drug therapy, pathology); **LIVER; MALE; MIDDLE AGE; NEOPLASM METASTASIS; OXYGEN INHALATION THERAPY; OXYGEN** (blood); **RADIOISOTOPE SCANNING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H..**

**Sparrow JT**

**THE REQUIREMENT FOR LIPID FLUIDITY IN THE FORMATION AND STRUCTURE OF LIPOPROTEINS: THERMOTROPIC ANALYSIS OF APOLIPOPROTEIN-ALANINE BINDING TO DIMYRISTOYL PHOSPHATIDYLCHOLINE.** Pownall HJ, Morrisett JD, Sparrow JT, Gotto AM *Biochem Biophys Res Commun* 60: 779-86, 23 Sep 74 (Eng)

**Spaulding JM**

**DISORDERS OF THE AUTONOMIC NERVOUS SYSTEM. CHAPTER 10. SWEATING.** Johnson RH, Spaulding JM *Contemp Neurol Ser* 179-98, 1974 (Eng) [108]

**DISORDERS OF THE AUTONOMIC NERVOUS SYSTEM. CHAPTER 13. DISTURBANCES OF THE URINO-GENITAL SYSTEM.** Johnson RH, Spaulding JM *Contemp Neurol Ser* 233-47, 1974 (Eng) [62]

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**EFFECTS OF DIURIL AND DILANTIN ON BLOOD GLUCOSE AND INSULIN LEVELS IN LATE PREGNANCY.** Spellacy WN, Cohn JE, Birk SA *Obstet Gynecol* 45: 159-62, Feb 75 (Eng)

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**Sperling MA**

**ALANINE STIMULATION OF THE PANCREATIC ALPHA- AND BETA-CELL IN THE NEONATAL LAMB.** Fiser RH Jr, Phelps D, Williams P, Sperling MA, O W, Fisher DA *Biol Neonate* 25: 171-5, 1974 (Eng)

**Spevakova A**

**[COURSE OF IMMUNOREACTIVE INSULIN, GLYCEMIA AND FATTY ACID LEVELS AFTER STIMULATION WITH GLUCOSE AND AMINOPHYLLINE]** Bartos V, Malakova B, Spevakova A, Visek V, Kromholzova L, Musil J, Kimlova I, Prokopec J *Vnitř Lek* 21: 261-8, Mar 75 (Cze)

**Sprecher H**

**THE INFLUENCE OF DIETARY ALTERATIONS, FASTING AND COMPETITIVE INTERACTIONS ON THE MICROSOMAL CHAIN ELONGATION OF FATTY ACIDS.** Sprecher H *Biochim Biophys Acta* 360: 113-23, 22 Aug 74 (Eng)

**ANIMAL EXPERIMENTS; CARBON RADIOISOTOPES; CHROMATOGRAPHY, GAS; DIET; DIETARY FATS** (metabolism); **FASTING; FATTY ACIDS** (biosynthesis); **FATTY ACIDS, UNSATURATED** (metabolism); **MALE; MICROSOMES, LIVER** (metabolism); **OSMOLAR CONCENTRATION; PALMITIC ACID** (metabolism); **RATS; STEARIC ACID** (metabolism); **TIME FACTORS.**

**Stadil F**

**EFFECT OF ATROPINE ON HYPOGLYCEMIC RELEASE OF GASTRIN IN MAN.** Stadil F, Malmstrom J, Rehfeld JF, Miyata M *Acta Physiol Scand* 92: 391-8, Nov 74 (Eng)

**ADULT; ATROPINE** (pharmacodynamics); **BLOOD SUGAR** (metabolism); **DEPRESSION, CHEMICAL; FEMALE; GASTRIC ACIDITY DETERMINATION; GASTRIC JUICE** (physiology); **GASTRIN** (secretion, blood); **HUMAN; HYPOGLYCEMIA; INSULIN** (pharmacodynamics); **IODINE RADIOISOTOPES; MALE; RADIOIMMUNOASSAY; SECRETORY RATE** (drug effects); **STIMULATION, CHEMICAL; SULFATES** (pharmacodynamics); **TIME FACTORS.**

**Stahelin HB**

**75SE-SELENOMETHIONINE-LABELED LIPOPROTEINS IN HYPERLIPIDEMIC AND NORMOLIPIDEMIC HUMANS.** Stahelin HB *Metabolism* 24: 505-15, Apr 75 (Eng)

**ADULT; AGE FACTORS; AGED; BODY HEIGHT; BODY WEIGHT; CHOLESTEROL** (blood); **DIABETES MELLITUS** (complications, blood); **FEMALE; HUMAN; HYPERLIPIDEMIA** (blood); **LIPIDS** (metabolism); **LIPOPROTEINS**

## Stahl J

(blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; METHIONINE (blood); MIDDLE AGE; RADIOISOTOPES; SELENIUM; SEX FACTORS; TRIGLYCERIDES (blood).

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[DECREASE OF GLUCOSE TOLERANCE AND INSULIN SECRETION AFTER INFUSION WITH AMMONIUM SALTS IN NORMAL HUMANS AND PATIENTS WITH FATTY LIVER OR LIVER CIRRHOSIS] Schlienger JL, Imier M, Stahl J *Biol Gastroenterol (Paris)* 7: 101-10, Apr-May 74 (Fre)

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EFFECTS OF PANCREOZYMIN AND GLUCAGON ON GASTRO-DUODENAL MOTILITY IN NORMAL SUBJECTS. Stanciu C, Bennett JR *Rev Med Chir Soc Med Nat Iasi* 78: 609-13, Jul-Sep 74 (Eng)

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## Steffes MW

STUDIES OF THE RATE OF REGRESSION OF THE GLOMERULAR LESIONS IN DIABETIC RATS TREATED WITH PANCREATIC ISLET TRANSPLANTATION. Mauer SM, Steffes MW, Sutherland DE, Najarian JS, Michael AF, Brown DM *Diabetes* 24: 280-5, Mar 75 (Eng)

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PRODUCTION OF CHYLOMICRON-LIKE LIPOPROTEINS FROM ENDOGENOUS LIPID BY THE INTESTINE AND LIVER OF DIABETIC DOGS. Steiner G, Poapst M, Davidson JK *Diabetes* 24: 263-71, Mar 75 (Eng)

ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; BIOPSY; BLOOD SUGAR (analysis); CHOLESTEROL (blood); CHROMATOGRAPHY, GAS; CHYLOMICRONS (biosynthesis); DIABETES MELLITUS (metabolism, prevention & control); DOGS; FATTY ACIDS, NONESTERIFIED (blood, biosynthesis); HEPARIN; INSULIN (therapeutic use); INTESTINAL MUCOSA (pathology, metabolism); INTESTINES (metabolism); JEJUNUM (pathology); LIPIDS (metabolism);

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LIPOPROTEINS (biosynthesis); LIVER (metabolism); NICOTINIC ACIDS (pharmacodynamics); PALMITIC ACIDS (metabolism); PANCREATECTOMY; TRIGLYCERIDES (blood).

## Steinheilber S

[SEVERE DECREASE OF ANTIGENICITY AND IMMUNOGENICITY OF BOVINE INSULIN BY SPLITTING OFF AMINO ACIDS B1, B2 AND B3 WITH SUBSTANTIAL PRESERVATION OF BIOLOGIC ACTIVITY] Kerp L, Steinheilber S, Kasemir H, Henrichs HR, Petersen KG, Hahn J, Geiger R *Verh Dtsch Ges Inn Med* 80: 1289-91, 1974 (Ger)

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PANCREATIC INSULIN RELEASE AND PERIPHERAL TISSUE RESISTANCE IN ZUCKER OBESE RATS FED HIGH- AND LOW-CARBOHYDRATE DIETS. Stern JS, Johnson PR, Batchelor BR, Zucker LM, Hirsch J *Am J Physiol* 228: 543-8, Feb 75 (Eng)

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## Stolz P

THE FATTY ACID PATTERN OF ADIPOSE TISSUE AND LIVER TRIGLYCERIDES ACCORDING TO FAT DROPLET SIZE IN LIVER PARENCHYMAL CELLS OF DIABETIC SUBJECTS. Singer P, Gnauck G, Honigsmann G, Stolz P, Schliack V, Kettler LH, Buntrock P, Thielke H *Diabetologia* 10: 455-8, Oct 74 (Eng)

## Stone HH

MAJOR HEPATIC RESECTIONS IN CHILDREN. Stone HH *J Pediatr Surg* 10: 127-34, Feb 75 (Eng)

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## Stone RM

ANEURYSM OF THE HEPATIC ARTERY: RECONSTRUCTION WITH AUTOGENOUS SAPHENOUS VEIN. Goldman BS, Stone RM *J Cardiovasc Surg (Torino)* 15: 692-5, Nov-Dec 74 (Eng)

## Stout J

PERSISTENT PANCREATIC GLUCAGON BUT NOT INSULIN RESPONSE TO ARGININE IN

PANCREATECTOMIZED DOGS. Mashiter K, Harding PE, Chou M, Mashiter GD, Stout J, Diamond D, Field JB *Endocrinology* 96: 678-93, Mar 75 (Eng)

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EFFECT OF INSULIN ON THE PROLIFERATION OF CULTURED PRIMATE ARTERIAL SMOOTH MUSCLE CELLS. Stout RW, Bierman EL, Ross R *Circ Res* 36: 319-27, Feb 75 (Eng)

ANALYSIS OF VARIANCE; ANIMAL EXPERIMENTS; AORTA, THORACIC (cytology); ARTERIOSCLEROSIS (pathology); CELL COUNT; CELL DIVISION (drug effects); CELLS, CULTURED; CULTURE MEDIA; DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; INSULIN (pharmacodynamics, antagonists & inhibitors); MACACA; MICROSCOPY, ELECTRON; MUSCLE, SMOOTH (cytology); STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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[STUDY OF SERUM LIPOPROTEINS IN DIABETES MELLITUS. CLINICOMETABOLIC SIGNIFICANCE] Strat C, Andriescu E, Lungu I, Ilarion FL, Terek C *Rev Med Chir Soc Med Nat Iasi* 78: 565-72, Jul-Sep 74 (Rum)

ADULT; CHOLESTEROL (blood); DIABETES MELLITUS (blood, complications); DIABETIC ANGIOPATHIES (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPEMIA (etiology); LIPOPROTEINS (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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[STIMULATION OF GROWTH HORMONE SECRETION WITH ALPHA-MSH] Bricaire H, Strauch G, Rifai M, Cesselin F, Valcke JC *Ann Endocrinol (Paris)* 35: 159-64, Mar-Apr 74 (Fre)

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[INSULIN AND LONG-TERM THERAPEUTIC EXERCISE IN PATIENTS AFTER MYOCARDIAL INFARCTION (AUTHORS TRANSL)] Karlicek V, Topolcan O, Sova J, Kucera M, Jeschke J, Suchan J *Ceskoslov Lek* 113: 569-70, 3 May 74 (Cze)

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INDUCTION OF ENZYMES BY GLUCAGON, GLUCOSE REPRESSION, ADENOSINE 3,5-MONOPHOSPHATE CONCENTRATION DURING CARCINOGENESIS AND IN MORRIS 6918A HEPATOMA. Sudilovsky O, Gunter R *Cancer Res* 35: 1069-74, Apr 75 (Eng)

ADENOSINE CYCLIC 3,5-MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CARCINOGENS; ENZYME INDUCTION; ENZYME REPRESSION; FLUORENES; GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); HEPATOMA (enzymology, chemically induced, pathology); LIVER NEOPLASMS (enzymology, chemically induced, pathology); MALE; NEOPLASMS, EXPERIMENTAL (enzymology, pathology); RATS; SERINE DEHYDRATASE (metabolism); TYROSINE AMINOTRANSFERASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..



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SULFATED MUCOPOLYSACCHARIDES AND BASOPHILIC LEUCOCYTES IN RABBITS ON A HIGH CHOLESTEROL-OIL DIET. Sue TK, Jaques LB *Proc Soc Exp Biol Med* 146: 1006-13, Sep 74 (Eng)

ANIMAL EXPERIMENTS; ARTERIOSCLEROSIS (metabolism); BASOPHILS (metabolism); CHOLESTEROL (blood); CHOLESTEROL, DIETARY; CHONDROITIN (blood); DIETARY FATS; LEUKOCYTE COUNT; MALE; MUCOPOLYSACCHARIDES (blood, analysis); PEANUTS; RABBITS; TIME FACTORS; TRIGLYCERIDES (blood).

**Suetsugu N**

[PROCEEDINGS: PURIFICATION OF PORCINE PROINSULIN C-PEPTIDE] Oyama H, Matsumura S, Horino M, Kobayashi K, Suetsugu N *Folia Endocrinol Jpn* 50: 242, 20 Feb 74 (Jpn)

[PROCEEDINGS: IMMUNOLOGICAL HALF-LIFE OF PORCINE PROINSULIN C-PEPTIDE] Oyama H, Matsumura S, Horino M, Kobayashi K, Suetsugu N *Folia Endocrinol Jpn* 50: 243, 20 Feb 74 (Jpn)

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[FREQUENCY, SEVERITY AND FORMS OF MANIFESTATION OF DIABETIC RETINOPATHY IN RELATION TO THE STATUS OF COMPENSATION FOR DISORDERED METABOLISM IN DIABETES MELLITUS] Lekishvili VP, Chkoniia EA, Bogatyreva SH, Sulkhanishvili IZ. *Probl Endocrinol (Mosk)* 20: 20-3, May-Jun 74 (Rus)

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ADENINE NUCLEOTIDES IN THE SECRETORY GRANULE FRACTION OF RAT ISLETS. Leitner JW, Sussman KE, Vatter AE, Schneider FH *Endocrinology* 96: 662-77, Mar 75 (Eng)

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[PROCEEDINGS: SERUM DOPAMINE BETA HYDROXYLASE ACTIVITIES IN THE INSULIN TEST] Okada F, Yamashita I, Suwa N, Kunita H, Hata S *Folia Endocrinol Jpn* 50: 643, 20 Feb 74 (Jpn)

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[PROCEEDINGS: GLUCOSE STIMULATION OF INSULIN SECRETION AND RESULTANT CHANGES OF CYCLIC AMP VOLUMES IN THE LANGERHANS ISLANDS] Suzuki A, Oka H, Yasuda H, Kaneko T, Yamashita K *Folia Endocrinol Jpn* 50: 236, 20 Feb 74 (Jpn)

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism); MALE; RATS.

[PROCEEDINGS: C-PEPTIDE METABOLISM IN MAN AND RATS] Munemura M, Kaneko T, Oka H, Yamashita K, Suzuki A *Folia Endocrinol Jpn* 50: 240, 20 Feb 74 (Jpn)

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[PROCEEDINGS: THYROID FUNCTION AND INSULIN SECRETION INDUCED BY ARGININE] Suzuki H, Yoshie Y, Takemura Y, Kobayashi S *Folia Endocrinol Jpn* 50: 222, 20 Feb 74 (Jpn)

ARGININE (pharmacodynamics); HUMAN; INSULIN (secretion); THYROID GLAND (physiology).

[PROCEEDINGS: EFFECTS OF AGING ON ARGININE INDUCTION OF INSULIN SECRETION] Yoshie Y, Suzuki H, Takemura Y, Kobayashi S *Folia Endocrinol Jpn* 50: 223, 20 Feb 74 (Jpn)

[PROCEEDINGS: MECHANISM OF STIMULATION OF INSULIN SECRETION BY BETA 2 RECEPTOR STIMULANTS. 2] Takemura Y, Yoshie Y, Suzuki H, Kobayashi S *Folia Endocrinol Jpn* 50: 224, 20 Feb 74 (Jpn)

**Suzuki K**

[PROCEEDINGS: RADIORECEPTOR ASSAY OF INSULIN. 3. THE REVERSE PORTION OBSERVED IN THE STANDARD CURVE] Suzuki K, Matsuzaki F, Osawa N, Kosaka K *Folia Endocrinol Jpn* 50: 177, 20 Feb 74 (Jpn)

ANIMAL EXPERIMENTS; INSULIN (blood); RADIOLIGAND ASSAY; RATS; SWINE.

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PROTEIN KINASE AND CYCLIC 3,5-AMP: SIGNIFICANCE OF BINDING AND ACTIVATION CONSTANTS. Swillens S, Van Cauter E, Dumont JE *Biochim Biophys Acta* 364: 250-9, 17 Oct 74 (Eng)

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[EFFECT OF CARBOGASEOUS BATHS IN THE TREATMENT OF CHRONIC PERIPHERAL OBLITERATING ARTERIOPATHIES] Brassai Z, Horvath E, Csogor I, Ferencz L, Benedek G, Szasz B *Rev Med Hum Soc Med Nat Iasi* 78: 603-8, Jul-Sep 74 (Rum)

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[FOLLOW-UP STUDIES OF PATIENTS FOLLOWING MYOCARDIAL INFARCT. EFFECT OF CLINICAL FEATURES OF ACUTE DISEASES ON LONG-TERM PROGNOSIS] Szczepanski L, Bednarzewski J, Pytko H *Pol Tyg Lek* 30: 515-8, 24 Mar 75 (Pol)

ACUTE DISEASE; ADULT; AGED; ARRHYTHMIA (complications); DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FOLLOW-UP STUDIES; HEART FAILURE, CONGESTIVE (complications); HUMAN; MIDDLE AGE; MYOCARDIAL INFARCT (complications); NEUROLOGIC MANIFESTATIONS; PROGNOSIS; TIME FACTORS.

**Szende L**

[THE DIURETIC ACTION OF A NEW ANTIDIABETIC DRUG (GLYBENCLAMIDE)] Rado J, Szende L, Borbely L, Marosi J, Juhas E, Toko J *Orv Hetil* 116: 249-53, 2 Feb 75 (Hun)

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[PROCEEDINGS: EFFECT OF PORCINE CALCITONIN ON INSULIN SECRETION] Shiraki M, Ito H, Tabuchi M, Oyama T, Orimo H *Folia Endocrinol Jpn* 50: 600, 20 Feb 74 (Jpn)

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THE INFLUENCE OF ENDOCRINE AND EXOCRINE PANCREAS ON THE CARBONIC ANHYDRASE ACTIVITY OF THE RAT SALIVARY GLANDS. Pinheiro CE, Tarzia O, Taga EM *Rev Bras Pesqui Med Biol* 5: 1-5, Jan-Apr 72 (Eng)

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[PROCEEDINGS: OBSERVATION OF ENDOCRINE FUNCTION OF THE LANGERHANS ISLANDS IN TISSUE CULTURE. 2. LONG TERM CULTIVATION OF MATURE RAT PANCREATIC LANGERHANS ISLANDS] Ono J, Takagi R, Fukuma M, Ikegami T *Folia Endocrinol Jpn* 50: 230, 20 Feb 74 (Jpn)

[PROCEEDINGS: OBSERVATION ON THE ENDOCRINE FUNCTION OF THE ISOLATED LANGERHANS ISLANDS IN CULTURE. 3. EFFECTS OF SOME CHEMICALS ON B CELLS OF LANGERHANS ISLANDS OF RATS] Fukuma M, Ono J, Ikegami T, Takagi R *Folia Endocrinol Jpn* 50: 233, 20 Feb 74 (Jpn)

**Takamatsu S**

HYPERLIPIDEMIA IN CEREBROVASCULAR DISEASES. Takamatsu S, Henmi K, Mizuno S *Jpn Circ J* 39: 311-5, Mar 75 (Eng)

ACTIVITIES OF DAILY LIVING; ADULT; AGE FACTORS; AGED; CEREBRAL HEMORRHAGE (blood, complications); CEREBROVASCULAR DISORDERS (complications, blood, physiopathology); CHOLESTEROL (blood); ELECTROPHORESIS; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERLIPEMIA (complications, blood, physiopathology); KIDNEY FUNCTION TESTS; LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; RURAL POPULATION; TRIGLYCERIDES (blood).

**Takao T**

[PROCEEDINGS: CHANGES IN GLUCOSE, NEFA AND IRI LEVELS BEFORE AND AFTER DIGESTIVE TRACT SURGERY] Nakao K, Takao T, Nonaka K, Manabe T, Uozumi T *Folia Endocrinol Jpn* 50: 211, 20 Feb 74 (Jpn)

**Takasakura E**

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**Takemura Y**

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[PROCEEDINGS: MECHANISM OF STIMULATION OF INSULIN SECRETION BY BETA 2 RECEPTOR STIMULANTS. 2] Takemura Y, Yoshie Y, Suzuki H, Kobayashi S *Folia Endocrinol Jpn* 50: 224, 20 Feb 74 (Jpn)

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[PROCEEDINGS: INSULIN SECRETION OF PATIENTS WITH FAMILIAL DIABETIC HISTORY] Abe H, Takeshita Y, Yoshimatsu R, Ueda Y, Fukuyama I *Folia Endocrinol Jpn* 50: 216, 20 Feb 74 (Jpn)

[PROCEEDINGS: GASTRIN SECRETION IN OGTT (ORAL GLUCOSE TOLERANCE TEST) IN DIABETIC PATIENTS] Fukuyama I, Takeshita Y, Yoshimatsu R, Ueda Y, Abe H *Folia Endocrinol Jpn* 50: 254, 20 Feb 74 (Jpn)



# Tako J

## Tako J

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## Tako M

[PROCEEDINGS: COMPARISON OF CHANGES IN BLOOD SUGAR, ELECTROLYTE AND IRI LEVELS IN MAN FOLLOWING INTRAVENOUS INJECTION OF 1.0, 0.1 OR 0.01 MG OF GLUCAGON] Okuno G, Tako M, Fukuda H, Okamoto K *Folia Endocrinol Jpn* 50: 218, 20 Feb 74 (Jpn)

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[ULTRASTRUCTURAL STUDIES ON DIABETIC RAT CATARACT INDUCED BY STREPTOZOTOCIN AND HUMAN DIABETIC CATARACT] Matsuura H, Setogawa T, Fujinaga Y, Tamai A, Matsuto T *Acta Soc Ophthalmol Jpn* 78: 997-1003, 10 Oct 74 (Jpn)

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[LETTER: INSULIN ANTIBODIES IN DIABETIC PREGNANCY. Tamas Jr G, Bekkefi D, Gaal O *Lancet* 1: 521, 1 Mar 75 (Eng)]  
BINDING SITES, ANTIBODY;  
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## Tamburrano G

[COMPARATIVE TRIALS WITH MONOCOMPONENT (MC) AND MONOSPECIES (MS) PORK INSULINS IN THE TREATMENT OF DIABETES MELLITUS. INFLUENCE ON ANTI-BODY LEVELS, ON INSULIN REQUIREMENT AND ON SOME COMPLICATIONS. Andreani D, Iavicoli M, Tamburrano G, Menzinger G, Maltarello C *Horm Metab Res* 6: 447-54, Nov 74 (Eng)]

## Taminato A

[PROCEEDINGS: DYNAMICS OF INSULIN SECRETION IN VARIOUS DISEASES, WITH SPECIAL REFERENCE TO A COMPARISON OF INSULIN RESPONSE TO STIMULATION BY GLUCOSE, ARGinine AND GLUCAGON] Taminato A, Goto Y, Miyamoto Y, Ikeda M, Kiyono H *Folia Endocrinol Jpn* 50: 220, 20 Feb 74 (Jpn)

ARGININE (pharmacodynamics); ENDOCRINE DISEASES (physiopathology); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (secretion).

## Taminato T

[PROCEEDINGS: PANCREATIC GLUCAGON RESPONSE IN THE ARGinine STIMULATION TEST IN ENDOCRINE DISEASES] Kiyono H, Goto Y, Taminato T, Kurahachi H, Sakurai H *Folia Endocrinol Jpn* 50: 248, 20 Feb 74 (Jpn)

## Tanaka R

[PROCEEDINGS: A NEW COMPONENT OF ENTERIC GLUCAGON] Tanaka R, Shima K, Sawazaki N, Tarui S *Folia Endocrinol Jpn* 50: 252, 20 Feb 74 (Jpn)  
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## Tanese T

[PROCEEDINGS: EFFECT OF TRYPSIN PRETREATMENT ON INSULIN SECRETION INDUCED BY GLUCOSE, GLUCAGON AND AMINOPHYLLINE: AN EXPERIMENTAL IN VITRO STUDY USING A PANCREATIC

SLICE OF THE RAT] Tanese T, Ando N, Shimizu N, Yasuzawa T, Ikeda Y *Folia Endocrinol Jpn* 50: 225, 20 Feb 74 (Jpn)  
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## Tang K

[RELATION BETWEEN GLUCOSE, INSULIN, AND GROWTH HORMONE IN THE FETUS DURING LABOR AND AT DELIVERY. Poonai APV, Tang K, Poonai PV *Obstet Gynecol* 45: 150-4, Feb 75 (Eng)]

## Tani S

[PROCEEDINGS: SIGNIFICANCE OF HYPERGLYCEMIA IN RATS WITH ALLOXAN DIABETES] Tani S, Komatsu T *Folia Endocrinol Jpn* 50: 207, 20 Feb 74 (Jpn)  
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## Taniguchi H

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## Tarnawski A

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## Tarui S

[PROCEEDINGS: ETIOLOGY OF DIABETIC ANGIOPATHIES: ACTIVITIES OF SERUM AND TISSUE BETA-N-ACETYLGLUCOSAMINIDASE IN STREPTOZOTOCIN-INDUCED DIABETES IN RATS AND THE EFFECTS OF INSULIN AND GLUCAGON] Fushimi H, Ichihara K, Saito K, Tarui S *Folia Endocrinol Jpn* 50: 210, 20 Feb 74 (Jpn)

[PROCEEDINGS: CHANGES IN ENDOGENOUS INSULIN SECRETION CAUSED BY INSULIN THERAPY: OBSERVATION ON MONOCOMPONENT (MC) INSULIN THERAPY] Fukumoto Y, Ichihara K, Tarui S *Folia Endocrinol Jpn* 50: 214, 20 Feb 74 (Jpn)

[PROCEEDINGS: EFFECT OF SECRETION ON INSULIN SECRETORY STIMULATION CAPACITY OF GLUCOSE] Shima K, Tarui S *Folia Endocrinol Jpn* 50: 228, 20 Feb 74 (Jpn)

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## Tarzia O

[THE INFLUENCE OF ENDOCRINE AND EXOCRINE PANCREAS ON THE CARBONIC ANHYDRASE ACTIVITY OF THE RAT SALIVARY GLANDS. Pinheiro CE, Tarzia O, Taga EM *Rev Bras Pesqui Med Biol* 5: 1-5, Jan-Apr 72 (Eng)]

## Tasaka Y

[PROCEEDINGS: KETONE BODY METABOLISM IN DIABETES: WITH SPECIAL REFERENCE TO THE EFFECTS OF

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[PROCEEDINGS: PANCREATIC GLUCAGON IN THE BLOOD OF DIABETIC PATIENTS] Tasaka Y, Sekine M, Yokosuka T, Iwatani M, Shizume K *Folia Endocrinol Jpn* 50: 247, 20 Feb 74 (Jpn)

DIABETES MELLITUS (blood); GLUCAGON (blood); HUMAN; PANCREAS (secretion).

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[A COAXIAL ELECTRODE FOR INTRAOCULAR DIATHERMY. Tate GW Jr, Hutton WL, Vaiser A, Snyder WB *Am J Ophthalmol* 79: 691-3, Apr 75 (Eng)]

DIABETIC RETINOPATHY (surgery); ELECTROCOAGULATION (instrumentation); ELECTRODES (instrumentation); EVALUATION STUDIES; EYE DISEASES (surgery); FIBER OPTICS (instrumentation); HEMOSTASIS (instrumentation); HUMAN; LIGHTING (instrumentation); OPHTHALMOLOGY (instrumentation); RETINAL DETACHMENT (complications); RETINAL VESSELS (surgery); SURGICAL INSTRUMENTS; THROMBOSIS (surgery); VITREOUS BODY (surgery).

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[PROCEEDINGS: RESERVE TSH RELEASING POTENTIAL OF THE PITUITARY GLAND IN DIABETES: CORRELATION BETWEEN THE DIABETIC STATE AND THE RESULT TRH TEST] Tateiwa M, Sakoda M, Mori E, Yamada A, Kusaka T *Folia Endocrinol Jpn* 50: 212, 20 Feb 74 (Jpn)

DIABETES MELLITUS (physiopathology); HUMAN; PITUITARY GLAND (secretion); THYROTROPIN RELEASING HORMONE (diagnostic use); THYROTROPIN (secretion).

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[THE CLINICAL USE OF STEROIDS IN PANCREATIC TRANSPLANTATION. Gliedman ML, Tellis V, Soberman R, Rifkin H, Freed SZ, Veith FJ *Transplant Proc* 7: 93-8, Mar 75 (Eng)]

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HORMONAL REGULATION OF CUTANEOUS LIPOGENESIS: EFFECTS OF HYPOPHYSECTOMY, POSTERIOR-HYPOPHYSECTOMY AND ALPHA-MELANOCYTE-STIMULATING HORMONE TREATMENT. Cooper MF, Thody AJ, Shuster S *Biochim Biophys Acta* 360: 193-204, 22 Aug 74 (Eng)

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ANIMAL EXPERIMENTS; BICARBONATES (metabolism); BLOOD SUGAR (biosynthesis); CATTLE (metabolism, physiology); FEMALE; GLUCONEOGENESIS (drug effects); GLUCOSE (pharmacodynamics, administration & dosage); INJECTIONS, INTRAVENOUS; INSULIN (blood); LACTATION; PREGNANCY; PROPIONATES (metabolism); TRITIUM; UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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A PROTEIN FROM POLYMEROPHONUCLEAR LEUKOCYTES (LEM) WHICH AFFECTS THE RATE OF HEPATIC AMINO ACID TRANSPORT AND SYNTHESIS OF ACUTE-PHASE GLOBULINS. Wannemacher RW Jr., Pekarek RS, Thompson WL, Curnow RT, Beall FA, Zenser TV, DeRubertis FR, Beisel WR *Endocrinology* 96: 651-61, Mar 75 (Eng)

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[MELITURIA] Tischler V *Cesk Pediatr* 29: 114-6, Feb 74 (Slo)  
CARBOHYDRATES (urine); GLYCOSURIA (etiology); HUMAN.

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EFFECTIVENESS OF THE INSULIN POLYPEPTIDES, IRP, GIP, VIP AND MOTILIN ON INSULIN RELEASE IN THE RAT. Turner DS, Etheridge L, Marks V, Brown JC, Mutt V *Diabetologia* 10: 459-63, Oct 74 (Eng)

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THE EFFECT OF ADRENALINE ON INSULIN RELEASING POLYPEPTIDE (IRP) MEDIATED INSULIN RELEASE IN VIVO IN THE RAT. Shabaan A, Turner DS, Marks V *Diabetologia* 10: 475-8, Oct 74 (Eng)

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ISOLATED GROWTH HORMONE DEFICIENCY, TYPE II (SEXUAL ATELEIOSIS, TYPE II). Tyson JE *Birth Defects* 7: 253-4, May 71 (Eng)

ADULT; AGED; DWARFISM, PITUITARY (familial & genetic); FEMALE; GENES, DOMINANT; GLUCOSE TOLERANCE TEST; HUMAN; SOMATOTROPIN (deficiency).

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[SOME CHARACTERISTICS OF THE INSULIN REGULATION OF HEXOKINASE ACTIVITY IN SKELETAL MUSCLE MITOCHONDRIA] Udintsev NA, Voloshina EI, Romanova GA *Ukr Biokhim Zh* 46: 480-1, Jul-Aug 74 (Rus)

ALLOXAN DIABETES (enzymology); ANIMAL EXPERIMENTS; DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); HEXOKINASE (metabolism); INSULIN (physiology, administration & dosage); MALE; MITOCHONDRIA, MUSCLE (enzymology); MUSCLES (enzymology); RATS.

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[DIET TREATMENT OF UNCOMPLICATED DIABETES AND OF DIABETES COMPLICATED WITH VARIOUS OTHER DISORDERS] Udrea L *Munca Sanit* 22: 343-8, Jun 74 (Rum)

COLITIS (complications); DIABETES MELLITUS (diet therapy, complications); DIABETIC DIET; ENGLISH ABSTRACT; GASTRECTOMY; HEPATITIS (complications); HUMAN; PEPTIC ULCER (complications); SPECIAL LIST NURSING.

### Ueda K

[PROCEEDINGS: CARBOHYDRATE AND LIPID METABOLISM: SPECIFICITY OF THE INSULIN RECEPTOR IN OBESE ANIMALS] Miyamura T, Inoo K, Ueda K, Mikuni E, Tsuda I *Folia Endocrinol Jpn* 50: 238, 20 Feb 74 (Jpn)

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[PROCEEDINGS: INSULIN SECRETION OF PATIENTS WITH FAMILIAL DIABETIC HISTORY] Abe H, Takeshita Y, Yoshimatsu R, Ueda Y, Fukuyama I *Folia Endocrinol Jpn* 50: 216, 20 Feb 74 (Jpn)

[PROCEEDINGS: GASTRIN SECRETION IN OGTT (ORAL GLUCOSE TOLERANCE TEST)

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ANIMAL EXPERIMENTS; CHOLESTEROL (biosynthesis); GLUCAGON (pharmacodynamics); LIVER (metabolism); RATS.

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ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); FRUCTOSE (metabolism); GALACTOSE (metabolism); GLUCOSAMINE (metabolism); GLUCOSE (metabolism, analogs & derivatives); GLYCOSIDES (metabolism); HEXOSES (metabolism); KIDNEY TUBULES, PROXIMAL (metabolism); MALE; MANNITOL (metabolism); MANNITOL (metabolism); SODIUM (pharmacodynamics); XYLOSE (metabolism).

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[PROCEEDINGS: CHANGES IN GLUCOSE, NEFA AND IRI LEVELS BEFORE AND AFTER DIGESTIVE TRACT SURGERY] Nakao K, Takao T, Nonaka K, Manabe T, Uozumi T *Folia Endocrinol Jpn* 50: 211, 20 Feb 74 (Jpn)

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INCORPORATION OF LIPID VESICLES BY MAMMALIAN CELLS PROVIDES A POTENTIAL METHOD FOR MODIFYING CELL BEHAVIOUR. Papahadjopoulos D, Mayhew E, Poste G, Smith S, Vail WJ *Nature* 252: 163-6, 8 Nov 74 (Eng)

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CHOLESTEROL (blood); DIETARY FATS (metabolism); ENGLISH ABSTRACT; HUMAN; LIPOPROTEINS (blood); PHOSPHOLIPIDS (blood); TRIGLYCERIDES (blood); VITAMIN E (blood).

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ADULT; AGED; BASEMENT MEMBRANE (ultrastructure); CONJUNCTIVA (pathology); DESMOSOMES (ultrastructure); DIABETES MELLITUS (complications); ENDOPLASMIC RETICULUM (ultrastructure); ENGLISH ABSTRACT; EPITHELIAL CELLS (pathology); FEMALE; GOLGI APPARATUS (ultrastructure); HUMAN; MALE; MICROSCOPY, ELECTRON; MIDDLE AGE; MITOCHONDRIA (ultrastructure); PTERYGIUM (pathology, complications); RECURRENCE; RIBOSOMES (ultrastructure).

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SODIUM (metabolism); TEMPERATURE; TIME FACTORS.

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